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*The Fresno Nursery Co.*  
INCORPORATED  
*Fresno,  
California*

1920

# Number of Trees or Plants to an Acre

	Method Square	Method Triangle Equilateral
1 ft. apart each way, No. plants.....	43,560	50,300
2 " " " " " " " ".....	10,890	12,375
3 " " " " " " " ".....	4,840	5,839
4 " " " " " " " ".....	2,722	3,130
5 " " " " " " " ".....	1,743	2,011
6 " " " " " " " ".....	1,210	1,397
7 " " " " " " " ".....	807	923
8 " " " " " " " ".....	630	735
9 " " " " " " " ".....	537	620
10 " " " " " " " ".....	435	502
12 " " " " " " " ".....	302	348
14 " " " " " " " ".....	222	256
16 " " " " " " " ".....	193	222
18 " " " " " " " ".....	170	195
20 " " " " " " " ".....	134	154
22 " " " " " " " ".....	109	125
24 " " " " " " " ".....	90	104
26 " " " " " " " ".....	75	86
28 " " " " " " " ".....	60	79
30 " " " " " " " ".....	48	55
35 " " " " " " " ".....	35	40
40 " " " " " " " ".....	27	31
50 " " " " " " " ".....	18	20

**RULE—Square Method—**Multiply the distance in feet between the rows by the distance the plants are apart in the rows, and the product will be the number of square feet for each plant or hill, which, divided into the number of feet in an acre (43,560), will give the number of plants or trees to the acre.

**RULE—Equilateral Triangle Method—**Divide the number required to the acre "square method" by the decimal .866. The result will be the number of plants required to the acre by this method.

## BASIS OF SIZES AND CALIPER MEASUREMENTS FOR TREES

On all deciduous fruit trees, except almonds and figs, the caliper and height combined determine the grade of the tree.

- Not less than 1 inch represents 8 to 10 ft. trees
- Not less than  $\frac{3}{4}$  inch represents 6 to 8 ft. trees
- Not less than  $\frac{1}{2}$  inch represents 4 to 6 ft. trees
- Not less than  $\frac{3}{8}$  inch represents 3 to 4 ft. trees
- Not less than  $\frac{1}{4}$  inch represents 2 to 3 ft. trees

Almonds and Figs are inclined to grow stocky and the caliper measurements will govern the grade regardless of the height of the tree.

## ALMONDS

- Not less than  $\frac{3}{4}$  inch represents 4 to 6 ft. trees
- Not less than  $\frac{1}{2}$  inch represents 3 to 4 ft. trees
- Not less than  $\frac{1}{4}$  inch represents 2 to 3 ft. trees

## FIGS

- Not less than  $\frac{3}{4}$  inch represents 4 to 6 ft. trees
- Not less than  $\frac{1}{2}$  inch represents 3 to 4 ft. trees
- Not less than  $\frac{1}{4}$  inch represents 2 to 3 ft. trees



# PLANTERS AND GROWERS

It is a great pleasure to us to be able to present you with our latest catalogue on the planting, pruning, and growing of all varieties of fruits, nuts, raisins, etc.

We thoroughly believe in helping the planter select suitable land and best varieties for planting such land, as we believe the time when he needs valuable assistance is when he is starting a new place.

We have always been ready to assist the planter in any way possible and believe our success and increased volume of business has been largely due to our cooperative methods.

Our thirty years in the Nursery business has fitted us so that we are in a position to give this information and we want our planters to be free to write us and ask for any information needed along this line. On the following pages of this book we have gone into the work of planting and pruning quite thoroughly and also have given complete descriptions of all the fruits, etc., we propagate.

Should the grower, however, have any problems connected with the planting of his stock, etc., we will at all times be glad to give any information at our command as we fully realize co-operation between planters and nurserymen is at all times profitable and more satisfactory to all concerned.



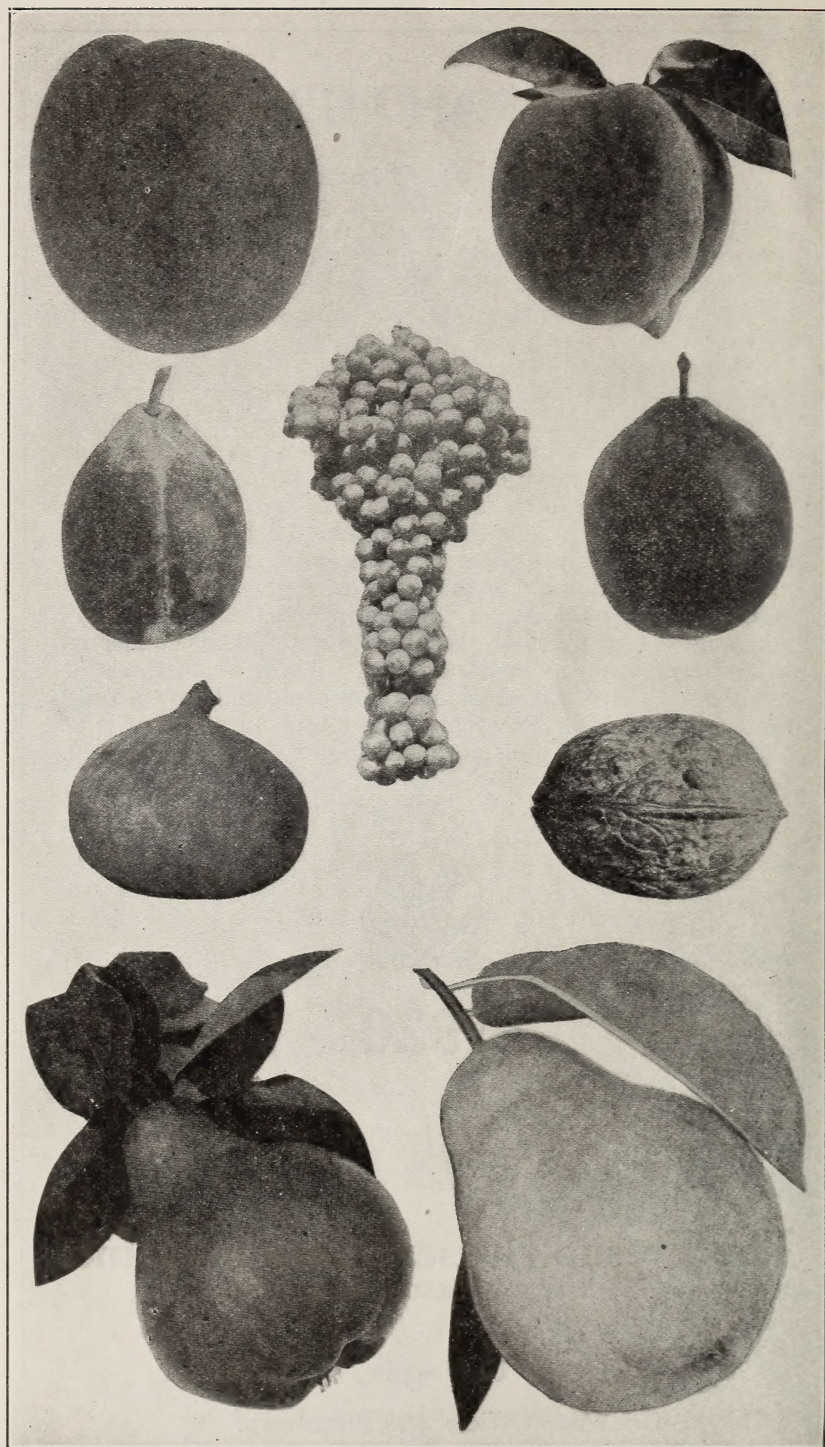
## 1920

### **The Fresno Nursery Company, Inc.**

**M. R. JACKSON, Manager**

**Fresno, California, U. S. A.**

**Main Office: 955 Broadway**



Blenheim Apricot  
 French Prune  
 Calimyrna Fig  
 Smyrna Quince

Thompson Seedless  
 Grape

Muir Peach  
 Imperial Prune  
 Franquette Walnut  
 Bartlett Pear



# OUR NURSERY

Our main nursery is located three and one-half miles southeast of Madera, Madera County, California, and within easy access from Fresno. The place is situated near Cottonwood Creek, the soil being a "silt wash." This soil is the best that can be used for general nursery purposes and is conducive to giving the trees sturdy trunks as well as a fine, fibrous root system—TREES THAT ARE IDEAL FOR TRANSPLANTING.

## OUR STOCK

Our climatic conditions cannot be excelled for the production of well-matured trees; the long growing season allows the tree to mature naturally, so that at digging time in December the wood is well hardened and in prime condition for handling. "RELIABILITY, QUALITY AND SERVICE FROM THE ROOTS UP" is our motto. We exercise the greatest care that can be given in proper selection of seedling stocks, cutting our buds from record-bearing orchards, scientifically budding the seedlings and giving the young trees the best care and cultivation in order to produce trees that are merchantable. The trees, when ready for the market, are dug by the most improved methods, preserving, as far as possible, all the root system necessary for proper transplanting. As the trees are dug they are graded, tied in bundles of ten and labeled. They are immediately trenched in the ground, which is a guarantee to our customers that the roots are not allowed to dry out thus injuring the vitality of the stock.

Accurate grading of all our stock receives strict attention so that our customers can rely upon receiving uniform trees of the size and grade purchased. One point, however, must not be overlooked; all trees do not have the same habit of growth, some making a light growth while others are stocky and robust, hence, grading is ruled by caliper measurement as well as height.

Our nurseries are inspected during the growing season by the Horticultural Commission, not a casual inspection once a year but rigid investigation throughout the growing and digging season. After such inspections are completed our inspectors have no hesitancy in issuing to us a Certificate of Inspection and in furnishing us, as our shipments are made, a clean bill of health for each and every consignment.

## SHIPPING FACILITIES

Our packing houses and "heeling in" grounds are located near Fresno on the Southern Pacific Railroad, making it possible for us to load and ship car-load lots as well as make local shipments with promptness and despatch.

In Fresno we have two main lines of railroads, the Southern Pacific and the Atchison, Topeka and Santa Fe Railroad Companies; also the American Express. By the aid of these carriers we are always in position to give our shipments the very best attention.

Do not fail to advise us how you wish us to ship: by freight, express, or parcel post, otherwise we will use our discretion in forwarding your shipment.

No charge is made for cartage in delivering packages to the freight or express houses.

**PACKING MATERIAL USED IN PREPARING THE STOCK READY FOR SHIPMENT WILL BE CHARGED AT ACTUAL COST.**

## ORDERS

Enclosed with this catalog you will find an order sheet and self-addressed envelope which are sent for your convenience in making up your order. Do not fail to fill in all blank spaces at the top of the order sheet, writing the same as plainly as possible. Mistakes will then be avoided. If you do not have our order blank, send order written on separate sheet of paper from your letter, giving address in full and advising how and where the shipment is to be received by you.

When your order is received at our office, it is copied and we then immediately send you a carbon copy of the order as booked, for your examination.

When ordering, advise us if substitution of any of the varieties mentioned in your order will be permitted. If this is agreeable, substitution for varieties we cannot supply will be made and noted on the confirmation order mailed you. If substitution is not allowed, such varieties as we cannot supply will be omitted from the order.

If we can be of any assistance in selecting stock for orders, we will gladly give suggestions, offering the best varieties suited to your local conditions.



## QUANTITY ORDERS

Articles mentioned in this catalogue will be furnished as follows: 5 of a variety at the 10 rate, 50 at the 100 rate, 300 at the 1000 rate. To illustrate: One each of Baldwin, Delicious, Gravenstein, Lawver, Red Astrachan, making five in all, would entitle the purchaser to the 10 rate on apples. If an order called for five varieties of apples, as mentioned above, 1 Muir Peach, 1 French Prune, 1 Royal Apricot, 1 Bartlett Pear, 1 Washington Navel Orange, the 10 rate would apply on the apples, but the each-rate on the assorted trees. Purchasers will please bear in mind that the quantity rates apply only where multiples of the same variety of tree is ordered and not on assortments. As an extreme case, 300 apples, one of each variety, would entitle the purchaser to the 1000 rate just the same as if the order consisted of 10 varieties of 30 trees each; if, however, 100 apples, 100 peaches, 100 pears, 100 plums, 100 nectarines, 100 apricots, 100 cherries, 100 walnuts, 100 oranges, and 100 persimmons were ordered, the 100 rate would apply on each item.

## TERMS AND REMITTANCES

All of our stock is sold for cash, unless other arrangements are made. Remittances can be made to us either by post office or express money order, registered letter, bank draft, or check. It often happens that our customers find it more convenient to send us a personal check on their local bank and such checks will be accepted for collection.

On all orders placed in advance we ask that a 25 per cent deposit be forwarded with the order and we will then reserve the stock for shipment at any time designated by the customer.

## CLAIMS AND LOSSES

All claims for mistakes in filling orders must be reported to us within ten days after the receipt of the goods. When shipments are delivered by us to carriers in good condition we cannot hold ourselves responsible for loss or injury. All customers are requested to keep their shipping receipts, as it is sometimes necessary to file claim with the Railroad Company or other carriers for damage or delay in transit and the original shipping receipt must be filed with such claim.

We do not guarantee stock to live nor do we make up any loss due to climatic effects or after culture on the part of the purchaser. It is understood by and between ourselves and the customer that we will exercise care to have all stock true to name; nevertheless, it is understood and agreed that should any stock prove untrue to name we shall be liable only for the sum paid for the stock which may prove untrue to name and shall not be liable in any greater amount.

We accept all orders on condition that the same shall be void should injury befall our stock through fire, frost, floods, drouth, or any other cause which could not be prevented and over which we have no control.

## WEIGHTS OF NURSERY STOCK

Deciduous fruit trees, packed ready for shipment, average in weight about as follows:

6-8 ft. size, 2 lbs. each

3-4 ft. size, 1 lb. each

4-6 " " 1½ " "

2-3 " " ½ " "

Citrus trees balled, from 35 to 40 lbs.. and with naked roots 3 lbs. each.

Grape vines, 1-3 lb. each.

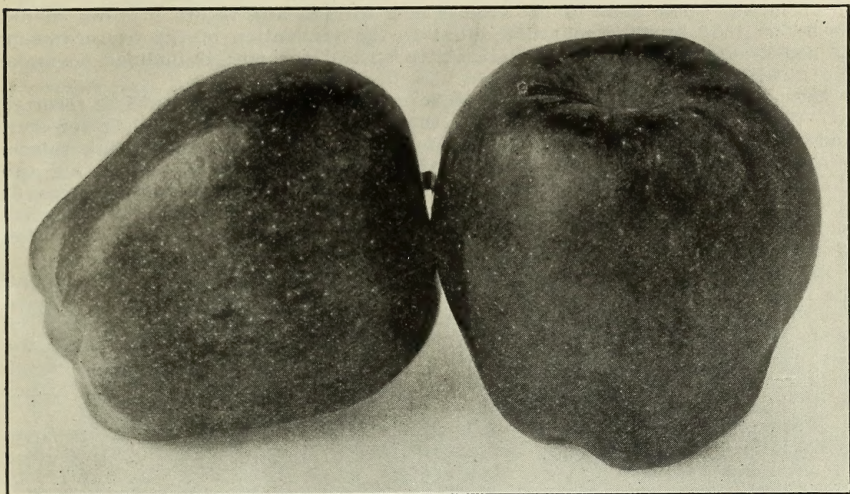
## NOTICE

Address all correspondence and make all remittances payable to the firm direct. Make no payments to salesmen who claim to represent us unless they show a letter of authority. Our salesmen have a Certificate of Agency and if any of them claim to represent us, be sure to have them show you their authority.

## SUGGESTIONS TO CUSTOMERS

Detailed information is given for the correct methods of planting the trees we offer under their several headings. Complete information is given, showing the number of trees and plants for an acre and rules for figuring the distances should they not be given in this scale on the inside front cover.





Delicious

## FRUIT DEPARTMENT

### APPLES

Taking into consideration its adaptability to the many localities, productiveness and commercial value, the apple takes the front rank among the popular and leading varieties of fruits. It is true that varieties of apples are variable as to locality but nevertheless a great many sorts adapt themselves to great extremes of soil and climatic conditions. In the hot interior valleys, apple culture is of little consequence commercially, yet there are varieties that are suitable for planting in the San Joaquin and Sacramento valleys for home use and the trees will bear and produce regular and abundant crops. The home of the apple, in California, is in the coast counties and in the ranges of the Sierra Nevada Mountains. In these localities are found large commercial orchards.

The soil best adapted for this fruit is a deep, rich loam, which allows freedom in root growth and in which there is no danger of excessive sub-irrigation and a standing high water level. Light, sandy soils should be avoided. Observations prove that apples grown in the mountainous regions have better keeping qualities and are more highly colored and flavored than those grown in the interior valleys.

In the descriptions of the varieties which follow will be found information giving the locality in which each variety attains its highest perfection.

Apple trees should be planted from 25 to 35 feet apart in regular orchard form, and when planted should be cut back to 18 inches from the top of the ground, except when planted in the high altitudes where there is danger of the branches being broken by the snow settling, such trees should be headed at three feet from the ground. It is very important to have the soil in good, friable condition before planting. The same should be plowed twice and harrowed thoroughly before setting the planting stakes. Early planting is advisable, thereby insuring the trees the benefit of late rains settling the soil around the roots and in starting the trees to growing.

Apple trees are subject to sun scald the first few years after planting, and we recommend to our customers to always use tree protectors on their stock.

Thorough and systematic cultivation should be practiced during the summer months to conserve the moisture and cause the trees to produce their fibrous rootlets necessary for the establishment of the trees.

Proper pruning of the trees the first year is a very important item. All shoots starting out from the body of the tree, except those that are to form the head of the tree, should be rubbed or cut off. The following winter the framework branches should be cut back one-half and thinned out so as to leave three or four branches to form the head or framework branches of the tree, and these should be so distributed around the trunk that they will not interfere or crowd each other as the tree develops. These branches are the framework of the tree, and in pruning the second winter not more than two



laterals on each of the framework branches, should be left and each cut back to 12 inches. The head of the tree is now formed and future pruning should be determined by the orchardist—that is, the prevention of the overcrowding of limbs—the development of laterals to spread the tree if inclined to make too much of an upright growth.

Over-production causes the fruit to be small and thinning should be resorted to. When this work is properly done the tree produces better and larger fruit and its vitality is not impaired to take care of the fruit for the following season.

Apple trees usually come into bearing from 6 to 8 years after planting and should produce a paying crop at the eighth year. This, however, depends largely on the care and cultivation given and the soil upon which the trees are planted, but the planter is always well repaid for the extra care and attention given his orchard by its producing earlier, better and more fruits.

As the fruit begins to ripen, the apple has attained its size and weight and the flow of sap from the tree has practically stopped. The fruits are still hard but the seeds have turned brown, and when this stage is reached they may be readily picked by slightly twisting the stem without danger of breaking the twig upon which it is borne and thus preventing the loss of bearing wood. Such fruits are superior to those which have been allowed to remain longer on the trees.

The best results are obtained in keeping apples by storing or packing them as soon as picked, and the storage temperature should be kept uniform near 33° F. so as to check the ripening process, avoid decay and shrivelling. In storing apples avoid packing them in hay or straw, which will impart a bad flavor to the fruit. The ripening periods given in each description of the different varieties are based upon the California standpoints of ripening.

Apples may be used in many ways. As the harvesting progresses, such fruits as are not suitable for the standard pack can be evaporated and the cores, peelings and culls can be made into cider or vinegar.

We want to impress upon our customers that in producing the trees which we offer, the greatest care is exercised in securing the best seedling stock obtainable. By the selection of buds from record-bearing orchards, the mechanical work of the nursery being performed under the most approved methods, we are able to offer trees of the very highest quality and which we are proud to sell our patrons.

Prices of Apple Trees		Each	10	100	1000
1 year.....	4 to 5 ft.	\$.75	\$6.00	\$45.00	\$400.00
1 year.....	3 to 4 ft.	.60	5.00	40.00	350.00
1 year.....	2 to 3 ft.	.50	4.00	30.00	250.00

## Alexander

The Alexander is one of the best of the Russian type varieties. The tree is a vigorous grower, hardy, and attains a medium to large size. While the natural growth of this tree is upright, it has a tendency to droop after bearing several crops. This variety is approved for planting in all districts of California, but is particularly recommended for the interior valleys and foothill regions.

The fruit is very large, regularly formed, with moderately thick and tough skin, handsomely striped with a lively red, showing faint red on the shaded side, but very bright in the sun and is one of the most attractive apples. The flesh is yellowish white, rather coarse in texture, but firm, tender and juicy, medium to good in quality, and is highly recommended for culinary purposes. Ripens in September and keeps well until November.

## Arkansas Black

The tree of Arkansas Black has a vigorous open growing habit, is a heavy producer and is highly recommended for planting in the coast regions and interior valleys of California.

The fruit is of medium size, nearly round and fairly uniform, with a smooth waxy skin of a most beautiful dark red color, turning almost black on the sides exposed to the sun. The flesh is decidedly yellow tinged, fine, firm and crisp, fairly juicy and of a very good quality and is highly valued as a market variety on account of its attractive appearance. Ripens in December and keeps well until April.

## Baldwin

This is a very popular variety in the Northwest where it is extensively grown, and is highly approved for planting in all sections of this state, but especially in the Northern and elevated districts.

The tree is large, very vigorous and long lived. It does not reach bearing maturity as early as several other varieties, but when it does it bears abundantly and is dependable. We would suggest thinning of the fruit, in order to overcome its natural habit of overproducing.

The fruit of this variety is large, roundish and fairly uniform in size, having a tough smooth skin mottled with bright red. The flesh is yellowish, firm, juicy, sub-acid and of good flavor. Ripens in January and keeps until April.



**Ben Davis** This tree is a rank grower when young, but attains only medium size; is roundish in form, inclined to be rather spreading when old. Extra care should be observed when pruning to keep out dense growth. It is favorably considered by some because of its late blooming, thus avoiding late frosts and enabling it the more often to bear heavy crops.

The fruit is medium to large, roundish but often irregular. Has a smooth, tough skin of yellowish color, overspread with light and dark red. The flesh is whitish, a little coarse, firm, juicy but not very crisp. It is a good keeper and considered fairly good over the entire state.

This variety ripens in October and when placed in cold storage can easily be kept until the latter part of January and often much later.



Ben Davis

**Bismarck** The Bismarck was introduced from New Zealand and has proven to be one of the best introductions of recent years. Tree is of dwarfish habit, very hardy, bears when young and can be depended upon for regular and heavy crops.

The fruit resembles somewhat the Alexander in appearance, being of large uniform size, roundish, and flattened at the base. The skin is yellow, washed and striped with various shades of red. The flesh is firm, tender and juicy. The Bismarck is best suited for culinary purposes.

We do not hesitate to recommend the planting of this variety throughout all parts of California and particularly in the warm interior valleys. Ripens in September and keeps until November.

**Black Ben** This variety is considered one of the really great commercial varieties of apples. The tree is hardy, moderately vigorous, having long drooping branches, with willowy laterals and rather dense growth. It comes into bearing young, is a good and regular producer.

The fruit has a thin, tough, smooth skin of a deep brilliant red color, inclined to be light yellow where shaded; is medium to large, roundish, symmetrical and uniform both in size and shape. The flesh is whitish with a yellow tinge, crisp juicy and of a mild sub-acid flavor; it does not bruise easily and this feature, combined with its many other good qualities, makes it very desirable to producer and consumer alike, as it commands particular attention as a market variety, as well as for table use.

Black Ben is approved in all sections of California, but is particularly recommended for commercial planting in the higher altitudes. Ripens in October and in storage can be kept successfully until the latter part of April.

**Delicious** The fruit of this variety is all that its name implies. It is large and uniform in size and its shape is long and tapering, being uniquely ribbed and having distinct knobs at the blossom end of the fruit. The skin is thin and tough, yellow in color, marked with dark red, with a crimson cheek on the sunny side. The flesh is white, fine grained, crisp, juicy, melting, sweet, slightly acid, and has a very fragrant aroma.

The tree is a very vigorous grower of uniform habit and of medium size, and is valued for planting in the central coast regions, interior valleys, foothills and high altitudes; however, it does fairly well in all soils where other apples

are grown. Ripens in November, and in cold storage will keep until March.

The Delicious is one of the finest varieties for dessert purposes. This together with its extreme beauty causes it to be a favorite on the market where it always sells at fancy prices.

**Duchess of Oldenburg** This apple is of Russian origin and has been grown in the middle west since 1835, where it gained favor among the planters owing to its extreme hardness. The tree is of medium size and upright habit gradually rounding with age.

The fruit of this variety is of medium size, roundish and uniform with a moderately thick skin of pale greenish yellow, beautifully striped with red and shaded with crimson, lightly marked with small light colored dots. Flesh of yellow tinge, very firm, crisp, tender and sub-acid.

We do not advise large plantings of this variety except in cases where the planter is close to a large market as the keeping and shipping qualities of this apple are not of the best. The fruit, however, commands the highest price on local markets on account of its earliness.

We strongly recommend this variety for home planting, as it has proven itself to be a great favorite among housewives for its fine culinary qualities, being one of the very best for the making of pies, apple sauce, dumplings, etc. Particularly adapted to interior valleys and foothill regions. Ripens in the month of July and will keep until September.

**Early Harvest** The tree of this variety is of upright roundish habit, medium size, moderately vigorous and an early bearer. It has proven itself very valuable for the home orchard, but we do not recommend it for commercial purposes, except where the fruit can be disposed of locally.

The fruit is of medium size and quite roundish, the skin is very smooth, of a bright straw color with a few faint dots of white. The flesh is white, juicy and crisp with a rich sub-acid flavor, which makes it very valuable among early apples for its high cooking qualities. The ripening period of the Early Harvest is late July.

**Esopus Spitzenburg** This tree is a moderately rapid grower and of a spreading habit and when planted on deep fertile soils, that are well drained, it comes into bearing at an early age and produces abundant crops of fruit. The Spitzenburg is best adapted for planting in the coast regions and higher altitudes but will do well in the interior valleys.

The fruit is very large, oblong, conical, rather broad and flat at the base, and highly colored, having a smooth tough skin which is often marked with yellowish russet dots, shaded yellow and often striped dark red. Flesh is yellow, crisp, of fine texture and quite juicy with a delicious rich brisk flavor.

Owing to its high standard of quality and attractiveness as a market variety this apple for commercial purposes is one of the best. Its ripening period is the first part of November and under ordinary conditions it can be kept as late as March. It has been known to keep as late as June in cold storage.

**Fameuse** Fameuse or Snow, as it is commonly called, is a vigorous grower with an upright tendency and unless given careful pruning becomes rather dense.

The fruit is of medium size with a skin of greenish yellow mixed with pale red streaks, becoming a fine red when fully ripe. The flesh is pure white, tender and of excellent flavor. It commands a good price in the market owing to its high color and time of ripening and is considered one of the best of the dessert varieties.

This variety does particularly well in coast regions and foothill sections, where it ripens in October and can easily be kept until late December.

**Gravenstein** The tree of this variety is a very vigorous grower and of an upright habit, spreading to a broad top. It comes into bearing at an early age and continues to be a heavy producer. The Gravenstein is highly recommended for planting in all sections of California.

The fruit is of uniform size, but irregular in shape, which is oblate to roundish, broadest at base. Skin is of a greenish yellow color, striped with light and dark red; dotted with a few light dots. Flesh is yellow, of fine texture, crisp, juicy and moderately tender and is unsurpassed by any variety of its season for culinary purposes. Ripens in August and when placed in cold storage can be kept until latter part of November.

**Grimes Golden Pippin** The tree makes a very vigorous growth, having short stout branches and inclined to be of an upright, roundish, dense habit and consequently requires careful pruning.

The fruit is of a beautiful rich golden yellow color and very attractive, roundish and oblong in shape, inclined to be flat at the blossom end. The flesh is of a yellow color being rather tender, crisp, juicy, sub-acid, with rich aromatic flavor, making it one of the finest dessert apples. It is also considered very good for culinary purposes.



We do not recommend planting it for commercial purposes, although, in favored sections, such as the interior valleys and foothill regions, the same has proven to be profitable, as the fruit is readily sold in nearby markets. Ripens in November. Not a long keeper.

This is one of the good varieties ripening in September and October. **Hoover** The tree is decidedly different from other varieties, being very short jointed in its growth. It is a free grower and a good producer. The fruit is large in size, oblate in shape and a beautiful red in color.

The flesh is crisp of a sub-acid flavor, very juicy and highly prized for both cooking and dessert purposes. Ripens in September and hangs on the tree throughout October.



Rome Beauty

Jonathan

**Jonathan** This variety is of the Spitzenburg class and originated in New York State. Rather a slow grower, of a roundish spreading habit and of medium size when fully grown. It is highly recommended as a producer and considered one of the very best apples of its season.

The fruit is of medium size, roundish and oval in shape, having a deep yellow ground overlaid with bright red which deepens to purplish on the sunny side. It makes a most attractive appearance on the market. Flesh is of a faint yellow, sometimes tinged with red, crisp, juicy, spicy, very aromatic and sub-acid.

The Jonathan is approved and recommended for all sections of this state. It is an excellent variety for either dessert or culinary uses and every home orchard should contain a tree of this variety.

**King David**

While similar to both the Arkansas Black and Jonathan, it is claimed by apple growers to be much superior in flavor and productiveness.

The tree is very hardy and a vigorous grower, blooms late, bears at an early age and produces regularly.

The fruit is large, a beautiful wine red in color. Flesh is firm, crisp and juicy. The exceedingly high color together with the size and good flavor of this variety make it a winner for market purposes. For culinary and dessert purposes it is one of the best.

Recommended for planting in all sections of the Pacific Coast. Ripens in October.

**Maiden Blush**

The tree of the Maiden Blush is a fine vigorous grower of spreading habit and comes into bearing when very young. It has gained considerable favor because of its regular and heavy crops.

The fruit is very attractive, being a pale lemon yellow color with a crimson cheek, and of uniformly large size, conical in form. The flesh is white, of good quality and is found excellent for the making of evaporated apples. It is considered good for culinary purposes.

The keeping qualities of the Maiden Blush are not of the best and its ripening period varies greatly in the different sections. It is approved for planting in the central coast regions, interior and foothill sections. Ripens in August.

**Mammoth Black Twig**

This is a southern variety of the Winesap type and originated in the northern part of Tennessee and in that section is one of the most

(Paragon)

profitable varieties. The tree is a vigorous grower, of spreading habit, and while not an early bearer, it produces good crops when in full bearing.

The fruit is of medium size, roundish and slightly conical with a skin of bright yellow, shaded with a light red, becoming very dark on the sunny side, sometimes splashed or sprinkled with yellowish and brown dots. The flesh is pale yellow, tender and juicy, with a mild sub-acid flavor.

The fine keeping qualities of this apple make it very valuable for market purposes. This variety is approved for planting in the central coast and mountain regions. It ripens in the month of November and can easily be kept throughout the month of January.

**Missouri Pippin** The Missouri Pippin is a moderately vigorous grower of upright habit, becoming roundish or spreading and in some ways resembles that of a crab apple tree. Owing to its attractive appearance and heavy bearing qualities, it has gained considerable favor.

The fruit is of roundish shape, flat at the base, medium size, with a thick, tough skin, rather glossy and of a pale greenish color, striped with red and purplish red, some highly colored specimens being almost solid red. The flesh is of a yellow tinge, rather fine grained, not very juicy or tender, sub-acid and of fair quality.

The planting of this variety is approved in the coast regions. Ripens in December and will keep until March under ordinary storage conditions.

**Northern Spy** This apple ranks in the Eastern fruit markets as one of the best as well as one of the most delicious, fragrant and highly attractive of the winter market sorts.

The tree is of a large vigorous type, being upright in form and inclined to be rather dense, consequently requires severe pruning in order that it may receive plenty of air and sunshine, otherwise the apples will not attain the high color so usual in this variety.

The fruit is of large size, being roundish, sometimes slightly oblong and frequently flattened at the base. The skin is tender, smooth and yellow overspread and striped with red, also is covered with medium size whitish or russet colored dots. The flesh is yellowish, rather firm, fine grained, very tender, juicy, crisp and of sprightly sub-acid flavor.

We highly recommend planting the Northern Spy in the mountain districts and north coast regions. Ripens in November and keeps in cold storage until the latter part of April.

**Ortley** This variety is commonly called White Bellflower. The tree is a strong grower and produces good crops.

The apples are large in size, rather oblong in shape and a whitish yellow in color. The flesh is white, fine grained, tender and sub-acid in flavor. Ripens in December and keeps well throughout January.

**Red Astrachan** The Red Astrachan is one of the oldest Russian type apples in the United States, being exhibited by the Massachusetts Horticultural Society as early as 1835, and enjoys the distinction of being one of the most widely used and grown throughout the continent.

The tree is of medium size, and of moderately vigorous growth, inclined to grow rather roundish and dense, consequently careful pruning is necessary in order to obtain best results. This variety is approved for planting in all sections of California but is particularly adapted to the interior valleys, it being one of the few sorts which withstand the extreme heat and produce regular and abundant crops.

The fruit is of medium size, roundish and flat, sides somewhat unequal. The skin is rather thin, quite tender, smooth, of a yellow or greenish tinge, usually striped with deep crimson or carmine, and dotted with numerous whitish dots. The flesh is of a whitish tinge, sometimes bearing a small trace of red, rather fine, tender, crisp and juicy with a brisk sub-acid flavor.

We would recommend the planting of this apple as a commercial variety, wherever planters have access to good local markets, and also for culinary purposes, wherever the soil and climate is adapted to the growing of any other variety of apple. Its period of ripening makes it one of the most valuable of early apples for commercial purposes, and is most highly esteemed by housewives in general. Ripens in July and when placed in a dark cellar can be kept until September.

**Red Beitigheimer** The tree of this variety grows large and moderately vigorous, being of upright spreading habit.

The fruit is very large and of uniform shape being round and inclined to conic. Skin is thick and smooth, of a pale yellow color washed with a pinkish red overspread with a darker red. Flesh is almost white, crisp and quite coarse and possesses a fairly good flavor.

This variety, owing to its immense size and beauty is a favorite for decorative and exhibition purposes. Ripens latter part of September.

**Red June** The Red June, originated in South Carolina, is another of the early summer varieties. Although it has the reputation of being a very good apple it has not been planted to any great extent commercially.



The tree is a moderate grower, of spreading habit and as it attains age it usually is a reliable bearer.

The fruit is rather small, roundish and uniform, having a tender, smooth glossy skin, of pale yellow or greenish overspread with a deep red, sometimes very dark on the exposed cheek. Some specimens are entirely red with rather numerous dots, which are very small and light. The flesh is white, tender, juicy and of a rich sub-acid flavor.

It is particularly adapted to the interior valleys and foothill sections, although, for home use, it is approved in most all localities. Used principally as a dessert fruit. Ripens in July.



Rhode Island Greening

## Rhode Island Greening

This is one of the oldest and most widely known and highly prized varieties of apples and certainly needs no introduction to anyone.

The tree is large and vigorous; makes a dense growth, is wide, spreading and somewhat drooping. This tendency requires the tree to be headed somewhat higher than the average tree and requires careful pruning to secure the best results. This variety always repays for any trouble taken to have it right.

The fruit is large to very large and uniform both as to size and shape, with a fairly thick, tough, smooth skin of greenish color turning to yellow when fully ripe. The flesh is yellowish, firm but tender, juicy and rich and exceedingly good in quality.

This variety is good for all purposes and is recommended for all sections. If placed in storage as soon as picked it keeps remarkably well. Ripens in October.

## Rome Beauty

This variety is well known to apple growers as a very hardy and vigorous tree, being of upright habit, a late bloomer and nearly always a sure cropper. It attains medium size and while upright at first, becomes spreading with age.

The fruit averages above medium size and is quite uniform both in size and shape which is roundish to slightly oblong. The skin is thick, tough, and smooth, which makes it a very valuable apple for shipping and storage purposes. It is of a greenish yellow shade, mottled with bright red, sometimes almost solid red on the exposed cheek, often striped with a darker red and covered with numerous whitish or brown dots. The flesh is nearly white, with a slight tinge of yellow, moderately fine grained, very juicy and aromatic with an agreeable mild sub-acid flavor.

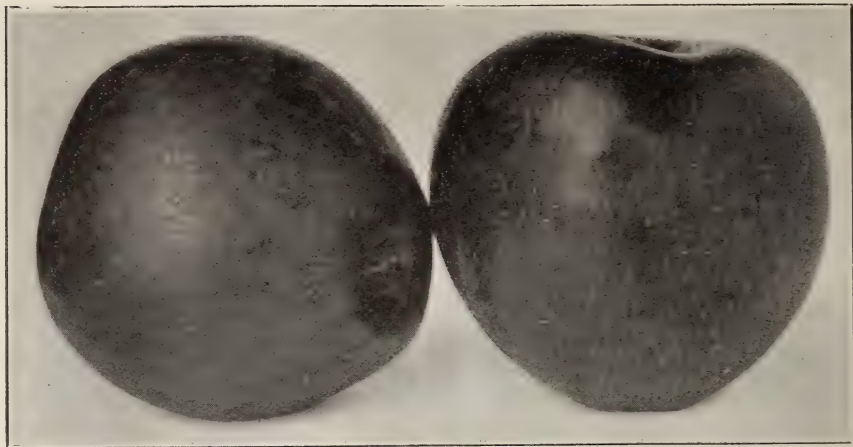
Rome Beauty is particularly noted for its fine keeping qualities which render it a very profitable apple, both as a commercial and family orchard variety. It ranks favorably with the well known Baldwin for its dessert and culinary purposes but comes into bearing at a much earlier age, which makes it a great favorite among planters. We highly recommend the planting of this apple in all parts of California. Ripens in November and under proper conditions can be kept until the latter part of March.

## Smith's Cider

Is a very popular and widely known variety and when grown under favorable conditions is a beautiful fruit. The tree is of spreading habit, very vigorous and productive.

The fruit is medium to large and of a roundish shape, yellow in color, shaded and striped with red having conspicuous russet or gray dots. The flesh is moderately fine grained of a whitish color, crisp, tender, quite juicy and is used extensively in some states for the making of cider.

It is recommended as a good variety to plant in all sections of California and is highly valued for its fine dessert qualities. Ripens in November and can be kept in storage until late February.



#### Stayman Winesap

### Stayman Winesap

The Stayman Winesap is a vigorous grower with an open and spreading habit; bears young, and is an annual and reliable cropper. This apple is of the Winesap class, and while perhaps a little less brilliant in color than its parent it is equal, if not better, in quality and adapted to a wider range of soil and climate.

The fruit is of medium to large size, quite uniform in shape and inclined to be somewhat flattened at the base. The skin is rather smooth and thick, of a green color, becoming more yellowish when ripe and covered with a dull mixed red, sometimes faintly striped with dull carmine. The flesh is greenish yellow in color, of firm texture, very juicy with a tart flavor.

We do not hesitate in recommending this variety for planting in the interior valleys, foothills, mountain valleys and plateaus, as we believe it worthy of extensive cultivation. Ripens in December and can be kept until April.

**White Astrachan** This popular variety is in great favor in the Yolo district and is considered one of the really good apples for the interior valley and foothill regions and in the central coast counties. Its early ripening qualities combined with its value as a local shipper has made ready sale for the fruit in San Francisco markets. The tree is of Russian origin, a moderate grower inclined to spread with age.

The fruit is of large size, roundish and flat at both ends and is very attractive. The skin is a deep waxen yellow color showing faint streaks of red or pink. Flesh is white and quite acid making it highly prized for culinary purposes. It reaches the markets when the cold storage apples are practically gone and for this reason brings good returns. Ripens in early July.

**White Winter Pearmain** This variety is considered among the leading fruit growers as being one of the most profitable winter apples grown on the Pacific slope. The tree is a hardy and vigorous grower with a spreading habit. It is a heavy producer and its fruit is unexcelled as a market variety.

The fruit is medium to large in size, very uniform and of a roundish oblong shape. The skin is smooth, greenish at first then gradually turning to a pale waxen yellow flushed on the sunny side with a brownish red and covered with numerous pale or russet dots. The flesh is of a yellow tinge, firm and fine grained, tender, crisp, juicy, with a pleasing aroma.

The White Winter Pearmain is highly recommended for planting in all sections of California. Ripens the latter part of November and keeps well under ordinary conditions until January.

**Winter Banana** The tree of this variety grows to a medium size forming a wide spreading head, the limbs of which are inclined to droop, giving the tree the appearance of a weeping habit. It comes into bearing when young and produces regular and heavy crops.

The fruit is of large size and in shape is roundish to conical and sometimes very flat at the base. The skin is smooth, tough, moderately thick, waxy and of a yellow color which when ripe often has a blush of dark-pinkish red, sometimes covered with whitish or fine russet dots. The flesh is of a whitish color, tinged with a pale yellow, crisp, tender, mild sub-acid, and a little coarse.



It is a very delicious apple for table use on account of its banana-like flavor but is usually too mild for culinary purposes. The many good qualities of this apple make it very desirable as a commercial variety and by all means should not be overlooked when making up a list for home orchards.

It is particularly adapted to the interior valley and foothill sections and has been planted with good results in the central coast regions and high altitudes. Ripens in October and keeps well until Christmas.



Winter Banana

**Winesap** Winesap is one of the oldest and most widely known and grown apples in the United States. The tree is a very vigorous grower and comes into bearing at a very early age and is a regular cropper. It is particularly adapted to light, rich deep soils. It is of a roundish spreading habit with an open top, grows to medium size, and has rather thin small foliage.

The fruit is medium and uniform in size, roundish, sometimes slightly conical. The skin is thick, smooth, and glossy red, blotched with a dark purplish red over a yellow ground color; sometimes covered with scattering whitish dots. The prevailing color, however, is always a deep red. The flesh is of a yellow tinge, very firm, crisp, but rather coarse and slightly sub-acid.

Winesap is recommended for its commercial qualities as well as for all culinary purposes and is reported as doing exceedingly well in the central coast regions, interior valleys and foothills although quite extensively planted in the northern coast regions where it is considered a profitable variety. Ripens in November and keeps well until February.

**Yellow Bellflower** Yellow Bellflower is one of the most attractive as well as one of the most highly esteemed apples grown. In California it reaches its highest type of perfection. The tree is moderately vigorous forming a spreading habit and is an excellent bearer.

The fruit is inclined to be rather large and oblong and more or less ribbed, often with prominent ridges at the apex, sides being sometimes unequal. The skin is of decidedly attractive color, being shaded and often blushed with a brownish red in the sun which improves greatly by becoming a more clearly defined yellow as it matures in storage. The flesh is whitish, tinged with a pale yellow and moderately fine grained, rather tender, juicy and possesses a fine aroma. When first picked it has a tendency to be rather too acid for dessert use but its qualities greatly improve after several months of storage.

The growing of this apple has been very successful in the central and northern coast regions, interior valleys and foothills and in fact most every locality where the soil and climate is adapted to the growing of other varieties of apples. Ripens in October and keeps well until January.

**Yellow NewtownPippin** The Yellow Newtown Pippin is a popular and excellent apple for storage and commercial purposes and for the export trade. It is successfully grown in all parts of the United States. The tree is rather a slow grower, moderately vigorous, sometimes becoming very large.

The fruit while uniform in size varies greatly in form which is usually roundish, oblate and somewhat angular. The skin is rather tough, slightly roughened with brownish russet dots and inclined to be of a greenish shade at har-

vesting time but afterwards attains a very pretty yellow showing a slight trace of brownish pink near the base. The flesh is of a yellow tinge, firm, tender, fine grained and sub-acid.

Yellow Newtown Pippin is considered the best winter apple in California and is one which we can recommend as adapted for planting in all sections. Ripens in December and keeps well until the latter part of May.

## CRAB APPLES

The Crab Apple has many points of excellence. They not only produce abundant crops of fruit but make fine ornamental trees especially when in bloom or when loaded with their highly colored fruits ranging from yellow to the deepest red and which are often borne in clusters.

General cultural directions are the same as for apples. The trees succeed as well in hot as in cold climates and the fruit is prized for making jellies, cider and preserves.

### Prices of Crab Apple Trees

		Each	10	100
1 year.....	4 to 6 ft.	\$.75	\$6.00	\$45.00
1 year.....	3 to 4 ft.	.60	5.00	40.00
1 year.....	2 to 3 ft.	.50	4.00	30.00

**Hyslop** The Hyslop is one of the most extensively cultivated varieties of the crab apples. The tree is very hardy, of a spreading habit and a very heavy bearer.

The fruit is of good size and is produced in clusters. The skin is of a rich dark red color. Flesh is of a sub-acid flavor and is particularly adapted for the making of cider as well as being a favorite with housewives for its use in making jellies, and spiced sweet pickles.

On account of the attractive appearance of the tree and fruit, as well as its many uses, we believe every home orchard should contain one or more of the trees. Ripens in November and keeps well until January.

**Red Siberian** This is a very highly prized variety of the crab apple family. Tree of rather spreading habit, producing fruit in clusters.

The fruit is about three-fourths to an inch in diameter, of uniform size and rather flat at the base. The skin is of a lively scarlet color and very smooth, having a yellow ground and usually covered with a white bloom. When the bloom is rubbed off it presents a very highly polished appearance, which makes it particularly prized for fruit basket decoration.

Red Siberian is considered excellent for culinary purposes and should not be overlooked when sending in your order. Ripens in September.

**Transcendent** This variety is known among producers of crab apples, as well as housewives, as being one of the very best early autumn varieties. The tree is a vigorous upright grower and comes into bearing at an early age. This together with its heavy bearing qualities makes it one of the most profitable for the home orchard.

The fruit is rather large, flattened at the end, of a golden yellow color, with a rich red cheek, and covered with a delicate pale blue bloom when ripe. This variety was imported from Russia and bears the reputation of being one of the best of the crab apple family. Ripens in September.

**Whitney** This variety is deserving of more attention than it has received in the past. In addition to its fine fruiting qualities the tree is very ornamental in appearance making a handsome specimen.

The fruit is one of the largest of the crab apple varieties, often averaging from 1½ to 2 inches in diameter. The skin is of a smooth, glossy, green color, striped and splashed with carmine. The flesh is very firm, juicy and rich.

The Whitney presents a very fine appearance, when displayed in a fruit basket, and it has exceptional value for culinary purposes. When fully ripe makes a fine dessert fruit. Ripens in August.

**Yellow Siberian** This tree is a vigorous upright grower becoming roundish with somewhat of a drooping habit.

The fruit is of a large size, beautiful golden yellow, or amber, in color and is borne in clusters. The flesh is a beautiful amber color, juicy, sub-acid and highly prized for the making of preserves and jellies.

On account of the high quality and the attractive appearance of this variety we believe every family orchard should contain one or more of these trees. Ripens in September.

## APRICOTS

California has the distinction of producing the largest quantity of apricots of any region in the world. Our exports to foreign countries, especially to Europe, has made California famous as an apricot producing section. The



crop is principally dried and canned, although large shipments of the fresh fruit are made yearly to the Eastern markets with very satisfactory returns to the grower. The increasing demand for this fruit is causing orchardists to plant additional acreage and also to seek new locations where the apricot will produce regular and abundant crops.

Apricots are budded on apricot, myrobalan (plum) and peach roots and on this account are planted in a diversity of soils. The apricot root is best adapted to heavy loams which are well drained, the myrobalan (plum) root to the heavy sub-irrigated soils, and the peach root to the light silt and sandy locations. On account of their tendency to spread, the trees should be planted not less than 20 to 30 feet apart in regular orchard form. Locations must be secured which are practically free from danger of heavy late frosts, for the apricot, like the almond, is susceptible to damage.

Before planting, the land should be thoroughly plowed, cultivated and harrowed into a loose friable condition. When the trees are set, cut them back to 18 inches from the top of the ground, shortening in the side or lateral branches to 2 inches. In pruning the first winter after planting, remove all branches from the tree to a height of 12 inches and leave from three to five main branches to form the head of the tree, and cut these back to 12 inches. These limbs should be distributed around the trunk of the tree so as to prevent crowding and overlapping as the tree develops. The second winter it should receive another heavy pruning, cutting out all new lateral growths, leaving only two laterals to each of the framework branches and these should be cut back to not more than two feet. The third season two or three shoots should be allowed to start and these should be shortened in one-half. In the future pruning of the tree the same system of the multiplication of branches can be carried out, but care must be taken not to allow the branches to overlap or too many lateral branches left that will crowd and choke the center of the tree. It requires severe and systematic pruning the first two years after planting to bring it into proper orchard form.

Apricots usually come into bearing the fourth year after planting, but it usually requires from seven to eight years to bring the tree into full bearing. This, however, is dependent upon the care, cultivation and pruning given during the first four or five years after it is planted.

Dried apricots command fancy prices from year to year and growers this season are receiving good prices for the dried product in the sweat box. Practically all the varieties ripen their fruits in May and June and the orchardist can harvest and dry his crop before other fruits are ready.

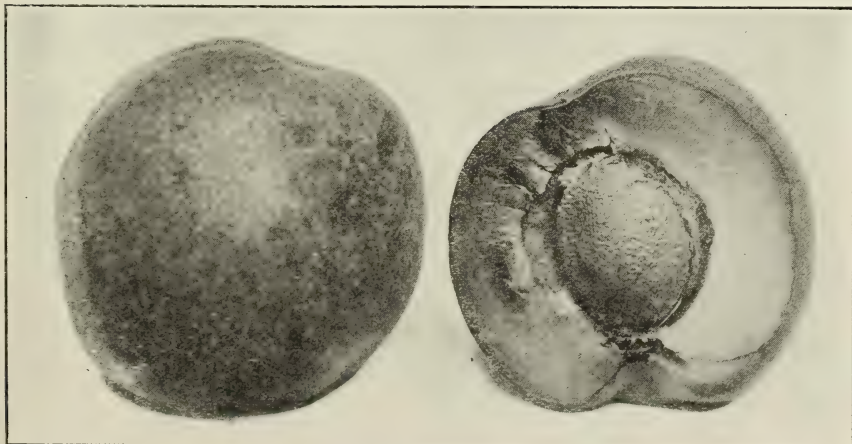
In some localities the entire crop is used for canning purposes. This is particularly so in the Santa Clara valley.

#### Prices of Apricot Trees, on Apricot, Myroloban and Peach Roots

		Each	10	100
1 year.....	4 to 6 ft.	\$ .70	\$6.00	\$45.00
1 year.....	3 to 4 ft.	.60	5.00	40.00
1 year.....	2 to 3 ft.	.50	4.00	30.00

#### Blenheim

This variety is sometimes termed among apricot growers as an improved Royal, having all the good bearing qualities of the Royal but being of larger size, which is a very important feature in the cutting and drying of the fruit as well as for market purposes. The Blenheim is grown



Blenheim

almost exclusively in the Santa Clara Valley where it is a decided favorite among the canners. It is also largely planted in all apricot sections of California where it has proven itself to be one of the best for drying purposes.

The tree is a strong grower, heavy bearer and of a spreading habit; bearing heavy foliage which gives ample protection to the fruit, consequently very little difficulty is experienced from sunburn.

The fruit is above medium in size, oval in shape, and of a deep orange color. The flesh is a beautiful yellow color, juicy and possesses a very fine flavor.

We recommend this variety to planters in all apricot sections as it has proven to be a money maker wherever planted. Ripens latter part of June.

## Hemskirke

The Hemskirke Apricot is of English origin, similar to the Moorpark in appearance but the tree is a much better bearer.

The fruit is large and inclined to be rather flat on both sides. The skin is an orange color, presenting a red cheek when fully ripe. The flesh is a bright orange, tender and juicy, with a rich plum-like flavor.

The pruning of the Hemskirke Apricot tree is in a large measure responsible for its production. Much better results are obtained when the trees are merely thinned out so as to admit air and sunshine. They should not be heavily pruned.

On account of its large size and fine quality it is highly appreciated in the local markets and by home orchardists. Ripens the latter part of June.

**Large Early Montgamet** This variety is of French origin and the tree is easily distinguished from other varieties of apricots by its weeping tendency. It is a free and abundant bearer and is regarded in some sections as one of the very best of the early varieties.

The fruit is large, rather flat in shape, and deep golden in color. Flesh is orange colored, rich and juicy.

Sections most adapted for the planting of this variety are the central coast, interior valley, and foothill regions. We would especially recommend its planting by all parties wishing an early apricot in their family orchard as well as those who dispose of their fruit through local markets. While it has not been as largely planted as some of the other early varieties, we believe it is one of the best early apricots. Ripens early June.

## Moorpark

Originated in England; is one of the largest apricots grown and while it does not bear regularly in all sections it is a decided favorite with many people.

The tree is strong and thrifty and grows to an immense size. The fruit is very large, roundish in shape, often measuring two and a quarter inches in diameter.

The skin is a beautiful orange yellow in color, blushed with deep orange or brown on the sunny side, often covered with dark specks.

Flesh is quite firm and possesses a rich, luscious flavor.

We do not recommend this variety for large plantings on account of its light bearing but we do highly recommend it for the family orchard. Ripens latter part of June.

## Newcastle Early

Originated at Newcastle, California, and is valued for market purposes on account of its early ripening period.

The tree is a medium strong, upright grower and a heavy bearer. The fruit of the Newcastle is medium size, free stone, rich in flavor and highly colored.

It is adapted for planting in the interior valleys and foothill sections and highly recommended as an early shipping variety as well as for home use. Ripens middle of May.

## Routier's Peach

Originated near Sacramento, California, on the farm of Joseph Routier. It derives the latter part of its name from the fact that it grows to unusual size, being in many instances as large as a medium sized peach. The tree is a strong and vigorous grower.

The fruit in color and shape resembles the Moorpark, being large, of a deep orange color and rather flat, having a splendid flavor. It differs, however, from the Moorpark in the fact that it is quite often mottled with dark brown on the sunny side. The flesh is juicy and rich.

This variety is considered very good for drying purposes as the fruit nearly all grades fancy; is best adapted for planting in the Sacramento and San Joaquin valleys. Ripens middle of June.

## Royal

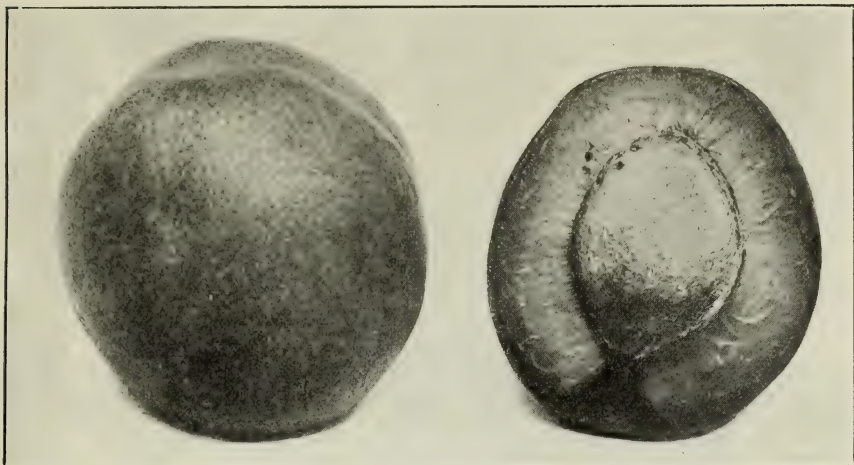
There is no variety of apricot grown in California that is more highly recommended for general planting than the Royal. The profits derived from the sale of the fruit has caused an increased demand on the Nurserymen of this State for Royal Apricot trees.

The tree is a strong vigorous grower and an exceedingly heavy producer.

The fruit of the Royal Apricot is large, roundish, oval and slightly compressed. The skin is a deep yellow flushed with red on the sunny side. The flesh is of a light yellow color, juicy, firm and has a most delicious flavor.



We highly recommend this variety for shipping, canning and drying purposes for any section throughout the State where apricots may be grown. Ripens early June.



**Tilton**

**Tilton** The Tilton was originated near Lemoore, Kings County, California, and occupies an important position as one of the leading apricots grown in this state. It is considered one of the most profitable varieties for general planting in all the apricot sections, and it is extensively planted in the San Joaquin valley and in the favored apricot sections of Southern California. One of the advantages of this variety is its late blooming period which makes it a regular bearer while others are sometimes injured by late frosts.

The tree is a strong, rampant grower and requires regular and systematic pruning. The fruit in general appearance strongly resembles the Routier Peach. It is of large size somewhat flat in shape and orange color. The flesh is a light orange yellow, firm, and has a delightful apricot flavor, and ripens very uniformly on the tree.

On account of its large size it makes a handsome dried product as well as a valuable canning and market variety. Ripens about the middle of June.

## CHERRIES

In commercial importance the cherry in California has not commanded the attention of the grower that it should receive. It is true that the cherry districts are limited, yet orchardists in these particular districts have been able to market their fruit with record-breaking returns from the Eastern markets. With our marketing facilities it should be an incentive to planters in the cherry districts to plant more trees of this profit-bearing fruit.

The cherry attains its highest perfection in the Vaca Valley, Santa Clara Valley, on the Bay Shore, and in the Yucaipa Valley above Redlands. It is not advisable to plant it in the hot interior valleys, as while the tree makes a tremendous growth, it refuses to bear.

The cherry requires a deep, moist, loam soil that is well drained. The moisture, however, must not be excessive.

The trees should be planted 25 feet apart and on very rich soils even farther apart is advisable.

In pruning, a low-headed tree is preferable so that the leaves will entirely shelter the bark from the direct rays of the sun. Tree protectors should be used until the trunks of the trees are shaded.

When trees are planted, head them back to 18 inches. In the following pruning season allow three or four branches to form the head of the tree and these should be distributed in such a manner as to prevent forks, as the tree has a tendency to split as it grows older. The first winter these framework branches should be cut back one-half, and the following season not more than one or two branches should be allowed to grow on those left the first year. This system of pruning should be followed until the trees are five years old. After that all the pruning required is to cut off all interfering or overcrowding branches. All large wounds made in pruning should be covered over with paint.

Under favorable conditions the cherry comes into bearing from 4 to 6 years after planting.

The proper method of packing this fruit for long distance shipments should be carefully studied and rigidly followed up.

The famous Maraschino cherry is usually made from the popular variety, Napoleon Bigarreau or Royal Ann, and this is an important industry in the cherry-growing districts. Large factories are already established in Oregon and Washington for the manufacture of this commercially bottled fruit.

Cherries are divided into two classes: The Hearts or Bigarreaus, which are the sweet cherries, the trees being thrifty, upright growers; and the Dukes or Morellos, the sour cherries, which are used principally for home canning. These trees grow slowly, the branches are slender and of willow habit.

For the convenience of our customers in the descriptions of the several varieties we have marked the Hearts or Bigarreaus "H" and the Dukes or Morellos "D."

#### Prices of Cherry Trees—on Mazzard and Mahaleb Roots

		Each	10	100
1 year.....	4 to 6 ft.	\$ .70	\$6.00	\$45.00
1 year.....	3 to 4 ft.	.60	5.00	40.00
1 year.....	2 to 3 ft.	.50	4.00	35.00

**Abundance (H)** Originated by Luther Burbank of Santa Rosa and resembles very much the Royal Ann of which it is a seedling.

The tree is a strong grower, early producer and known among cherry growers as a sure and heavy bearer. The fruit is somewhat larger than the Royal Ann, being of better form and color.

The flesh is sweet and delicious. It is claimed among cherry growers to be much superior to the Royal Ann. Ripens first week in July.

**Bing (H)** The Bing cherry was originated by Seth Lewelling, of Milwaukie, Oregon, and is one of the best black sweet cherries.

The tree is a strong, vigorous grower of upright habit and has a very heavy foliage. The fruit is very large, heart shaped, and when fully ripe the skin is almost black. The flesh is firm, meaty, sweet and delicious and is of a purplish red color.

One great advantage in growing this variety is the fact that the fruit can practically all be harvested at one picking, it being very uniform in ripening. Its firmness and delicious flavor causes it to be in great favor among fruit growers as well as shippers.

The planting of this variety is highly recommended in the upper and central coast regions and interior valleys and foothills. Ripens middle of June.

**Black Tartarian (H)** The Black Tartarian cherry is a great favorite on account of its delicious flavor and productiveness.

The tree is a vigorous, upright grower, has large heavy foliage, which gives ample protection to the fruit. The fruit is large, heart shaped, and the skin is black and glossy. The flesh is reddish purple in color, tender, with a small stone and is of unsurpassed quality.

It is highly recommended for planting in all parts of the state except southern California and the hot interior valleys. Ripens the middle of June.

**Burbank (H)** Originated by Luther Burbank and is the largest and one of the best early cherries known. It is said by cherry growers to be unsurpassed for size, color and quality by any other cherry grown.

The fruit is a purplish black in color and very beautiful in appearance. Ripens in early May.

**Centennial (H)** This cherry was raised by Mr. Henry Chapman in Napa valley as early as 1876. It is a seedling of the Napoleon Bigarreau more commonly known as Royal Ann.

The fruit is larger than that of the Napoleon Bigarreau, slightly oblate, amber in color, blotched with crimson. The flesh is sweet and juicy, very firm, but not superior in quality to its parent Royal Ann. Its keeping qualities make it a favorite.

Fruit sent to Europe, by mail, was found to be in splendid condition on arrival. Planters of this cherry in the upper central coast regions, interior valleys, foothills, mountain valleys and plateaus have met with good success and highly recommend it. Ripens early June.

**Chapman (H)** Supposedly a seedling of the Black Tartarian. Ripens during the months of April and May immediately after the Early Purple Guigne (which is considered the earliest marketable cherry) and just before the Black Tartarian or Bing.

The tree is of vigorous growth and very productive. The fruit is large, resembling the Black Tartarian in color. Flesh is fine grained, juicy and of delicious flavor.

Owing to its early ripening it reaches a strong market and commands attractive prices. Highly recommended in central coast regions, interior valleys and foothills.



**Early Purple Guigne (H)**

This variety is considered to be the earliest market cherry and under favorable conditions ripens the latter part of April.

Tree is of a spreading habit and is readily distinguished from most all other varieties by the leaves which have much longer leaf-stalks. Fruit is of medium size and heart-shaped. Skin is of reddish color turning to purple when fully matured. Flesh purple, tender, juicy and very delicious.

Has proven to be hardy in the mountain valleys and plateaus. Also does well in the Sacramento valley and coast regions. Being the earliest cherry offered on the market it commands fancy prices.

**Napoleon Bigarreau****Early Richmond (D)**

This tree is of roundish spreading habit and attains a height of about eighteen feet, is very productive and regarded by all cherry producers as a good market variety of the sour cherry type. It is of European origin and is noted for the tenacity with which the stone clings to the stem.

The fruit is used for canning purposes, it being too tart for dessert use. It hangs on the tree and becomes of large size and has a very fine flavor. The skin begins to color red at an early stage and becomes a beautiful dark red when fully ripe, at which period the fruit has a very delicious sprightly acid flavor and is very juicy.

It is especially recommended for planting in the foothills, upper and central coast regions, mountain valleys and plateaus. Ripens the latter part of May and the first of June.

**English Morello (D)**

This variety derives the name "Morello" because of its dark red flesh and purple juice.

The tree is of dwarfish habit, the branches being slender and willowy. Fruit is medium large heart shaped, with a dark red skin that becomes almost black when fully ripe. The flesh is dark purplish red with an agreeable sub-acid flavor.

It is used principally for home canning and for preserves. This variety does well in all the cherry districts of the State. Ripens in July.

**Lambert (H)** This is the largest red cherry yet produced. The tree is very hardy and a vigorous grower and forms a beautiful head. The fruit is heart shaped, very large in size and a beautiful dark red in color. The flesh is dark red in color and a mild sub-acid in flavor. Ripens about the 10th of July.

**Lewelling (H)** The Lewelling is commonly known as Black Republican or Black Oregon. It was originated by Seth Lewelling of Milwaukie, Oregon, from seeds planted by him in 1860.

The fruit greatly resembles the Black Tartarian being large in size and having a glossy black skin. The flesh is like that of the Napoleon Bigarreau in texture being very firm, juicy and sweet. It is of a purplish red color, and is a very good shipper.

It has given best results in central coast regions, interior valleys and foothill sections. It also does well in the upper coast regions, mountain valleys and plateaus. Ripens in July.

**May Duke (D)** This variety has long been a favorite among lovers of cherry fruits. Its slow and long ripening period renders it one of the most valuable for planting in family orchards. When it reaches a certain stage of ripeness it is unexcelled for cooking and the making of pies, and when fully ripe is one of the richest flavored cherries produced.

The tree is a strong, upright grower, forming a beautiful head. The fruit grows in clusters, and is heart shaped, with a skin of lively red, turning, when fully ripe, to a dark red. Flesh is reddish, tender, juicy and possesses an excellent flavor.

Planting of May Duke is approved for the central coast regions, interior valleys, foothills and southern sections. Ripens last week in May.

**Napoleon Bigarreau (H)** Commonly known as the Royal Ann and is the most extensively planted variety of all the sweet cherries. On account of its color and texture it is the favorite commercial canning and preserving variety from which the famous "Maraschino" cherry is manufactured. It is also considered the best variety for shipping to the eastern markets.

The tree is a free, upright grower and an enormous producer. The fruit is pale yellow to amber color, overspread with a bright red. Is rather long and heart shaped. Flesh yellow, juicy and possesses a mild sweet flavor.

Is highly recommended for planting in all upper and central coast regions, interior valley and foothill sections. Ripens late June.

## FIGS

The fig has found a congenial home in California, the industry having grown by leaps and bounds and we now produce more figs than any other portion of the United States.

The fig thrives best in the warm interior valleys and thousands of acres are annually planted in the San Joaquin and Sacramento valleys.

It is not particular as to soil but should not be planted in sub-irrigated or overflowed lands, which will cause the roots to rot and the fruit to sour on the trees before maturity. Figs do not mature well on the coast as the summer temperature is too low for successful ripening, nor should they be planted in the high altitudes where winter killing is possible.

It is an erroneous idea that figs will stand rough treatment, careless or no pruning and little or no cultivation and produce regular and abundant crops. No tree responds more readily to proper care, cultivation and pruning, and where this is practiced the reward is a bountiful crop of this most luscious fruit.

The trees should be planted not less than 30 feet apart which distance requires 48 trees to the acre. On heavy, rich soils 35 feet apart is preferable. Where too closely crowded they will not bear regular crops and the severe pruning required cuts away the bearing surface of the tree. For border purposes they are planted 30 feet apart.

Pruning is one of the most essential points in growing a fig orchard. When the tree is planted, cut it back to 18 inches from the ground and the first winter cut the branches back to about 12 inches, being sure to wax all cuts; leave three or four branches to form the head of the tree, distributed around the trunk so that they will not eventually crowd one another. The second season cut away two-thirds of the new growth, leaving not more than two shoots on each of the framework branches. The third season shorten in the new growth one-half and reduce the lateral branches to two on each of the limbs shortened in the previous season. The pruning for the following years should be only to remove interfering limbs or such limbs as will choke the tree. Do not fail to protect the bodies of the trees with protectors the first two years after planting. The Adriatic type of fig contains mule flowers and fertilization by the use of



the fig wasp, *Blastophaga Grossorum*, is not required for perfecting the fruit.

In the Smyrna type of fig if the female flowers are not fertilized by the transmission of pollen from the Wild or Capri class of fig through the agency of the fig wasp, *Blastophaga Grossorum*, the figs, when about half grown, will dry up and drop to the ground.

The Capri or Wild fig serves as a home for the fig wasp, *Blastophaga Grossorum*. The Capri trees bear three crops a year; the Mamme or over-wintering crop, the Profichi or spring crop, and the Mammoni or summer crop. The perpetuation of the insect depends on these succeeding crops.

The fertilization of Smyrna figs is accomplished by suspending the Profichi crop of Capri or Wild figs in the Smyrna trees in June, the Profichi crop being the only crop that contains the pollen necessary for this fertilization.

It is absolutely necessary to plant the Wild or Capri figs with the Smyrna trees, at least five Capri trees to each one hundred of the Smyrna type.

The harvesting and curing of the fig is very simple. The figs drop to the ground when ripe and are picked up in lug boxes and hauled from the field. They are then spread on trays and stacked. Before delivering them to the packing house they should be dipped in a hot salt brine containing four ounces of salt to one gallon of water and allowed to remain in this solution from fifteen to twenty minutes, they are then taken out, spread on trays and allowed to dry off for not more than one-half day, after which they are dumped in sweat boxes and stacked ready for delivery to the packing house.

#### Prices of Fig Trees—Adriatic, Black Mission and Smyrna Varieties

	Each	10	100	1000
4 to 5 ft.....	\$.70	\$6.00	\$45.00	\$400.00
3 to 4 ft.....	.60	5.00	40.00	350.00
2 to 3 ft.....	.50	4.00	35.00	300.00
1½ to 2 ft.....	.40	3.50	30.00	250.00

### Calimyrna

The culture of Smyrna figs in California began in 1882 when a large number of scions were imported from Smyrna. Out of this consignment developed a number of varieties of which one stood pre-eminently to the front. For the purpose of marketing this now famous variety it was given the trade name "Calimyrna."

The tree is a strong grower of spreading habit, leaves large and deeply lobed, of dark green color, and slightly downy underneath.

Fruit large to very large, skin fine lemon yellow color, flesh thick and meaty and of a dark amber color when ripe.

The dried product contains a higher percentage of sugar than any other fig. Dries readily and makes the finest commercial packed product.



### Calimyrna

### Kadota

The Kadota is a vigorous grower and bears abundant crops of medium size white figs which are used chiefly for canning and for pickling and is also recommended for its good qualities as a preserving variety. It has a very thin skin of golden yellow color. Pulp is white tinged with pink towards the center. Ripens the first week in August slightly in advance of the White Adriatic.

Kadota is a good variety to plant because of the many ways in which it can be used. This fig is highly recommended as suited to all conditions where other figs can be grown.

### Mission

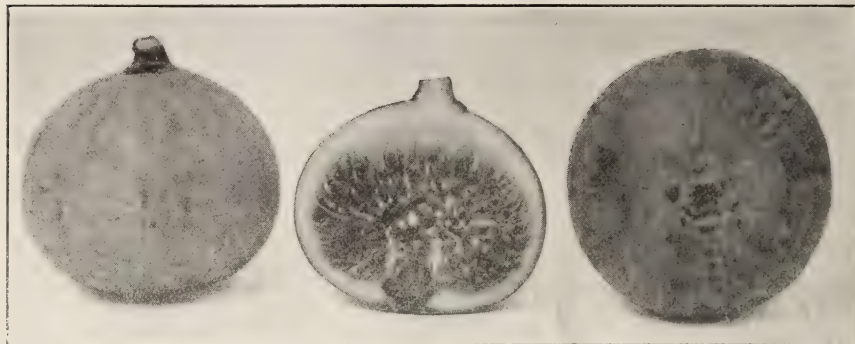
Commonly known as Black Mission or California Black and is one of the oldest figs grown in California. It is also grown in the Southern states and Mexico.

The tree is a very strong grower, often attaining a height of seventy-five feet and a spread of fifty feet. It is a regular and heavy bearer and has been proven to be a very profitable variety both as a shipping and drying product. The fruit is large, having a rough but thin skin, of a deep violet color; quite sweet, but not of a strong flavor.

The one great advantage of this fig, as a market product over other figs, is the fact that it seldom sours. Where one is desirous of growing figs for shipping and for supplying local markets this variety is highly recommended.

**San Pedro Black** chiefly for table use. The tree is an upright, thrifty grower, and attains large size. The skin of the fruit is very smooth, of violet black color shading to green at the neck. The pulp is of a coppery red color sweet and delicious.

For those desiring an early fig in their home orchard collection or for supplying local markets we can recommend nothing better. Ripens early August.



#### White Adriatic

Is probably more widely known and more extensively grown than any other fig. The tree is a healthy strong grower and has been cultivated very extensively in the interior valleys and foothill sections of California. When planted on suitable soil under proper conditions it has proven to be of great value to fig orchardists as a drying variety. We have known of instances where the Adriatic has yielded as much as six and seven tons of the dried product to the acre.

The fruit is of medium size, roundish, with a medium neck. Skin is very thin, greenish in shade, turning to yellow when ripe. The pulp is of a white color with violet streaks. Ripens middle of August. We particularly recommend this variety for planting in all fig sections.

## WILD OR CAPRI CLASS

### Prices of Capri Trees

	Each	10	100
4 to 5 ft.....	\$ .70	\$6.00	\$50.00
3 to 4 ft.....	.60	5.00	45.00

#### Capri No. 1

Is a rapid and vigorous grower and produces all the crops necessary for the perpetuation of the fig wasp. Profichi crop ready for distribution the first week in June.

#### Capri No. 2

Upright slender habit, leaves small, produces an abundance of the Profichi crop which ripens after Capri No. 1 and lengthens the fertilizing period.

#### Capri No. 3

The earliest of the Capri figs, maturing its fruits about the first of June and before Capri No. 1 are ready for distribution. The tree is a spreading grower, the branches heavy and closely jointed; considered to be the best of all.

## NECTARINES

A delicious, smooth-skinned fruit which thrives best in the interior valleys of the State. In habit of growth and general appearance the tree is hard to distinguish from the peach. The fruit is of exceptionally fine flavor and when dried or canned is highly prized by fruit lovers. The Nectarines are budded on peach root and should be planted in light or loam soils. Thorough preparation of the soil by plowing and cultivation should be done before the trees are set. They should be planted in regular orchard form, 20 to 24 feet apart; on very light, sandy soils 20 feet apart is sufficient, and on the heavier loam 22 to 24 feet apart is preferable.



The pruning is similar to that of the peach, it having the same habit of growth. When the trees are planted, cut them back to 18 inches from the top of the ground, shortening in all side branches to two inches. Three to four branches are left to form the head of the tree and these are cut back to 12 inches, the first winter after planting, and should be left around the trunk of the tree so as to prevent the development of forks, which will often split down when the tree is heavily loaded with fruit.

The second year's pruning should consist of heading back the new growth to at least two feet. In future pruning not more than two or three shoots should remain on the branches pruned back the previous year and they should be shortened in at least one-half. To keep the tree in perfect bearing condition, pruning should be followed out every year.

One of the important points in growing merchantable fruit is proper thinning. Overloaded trees produce small fruits and sap the vitality of the tree to the extent that the following season enough new fruit buds will not be formed to produce the quantity the tree should reasonably produce.



Stanwick

A lively interest is now being taken in planting out additional acreage, for large quantities of the shipping varieties are sold in the Eastern market at remunerative prices. The demand for the dried product is increasing from year to year.

The varieties which follow have been thoroughly tested and found valuable for planting in California, and we do not hesitate in recommending them to our customers.

#### Prices of Nectarine Trees on Peach Root

		Each	10	100
1 year.....	4 to 6 ft.	\$ .70	\$6.00	\$50.00
1 year.....	3 to 4 ft.	.60	5.00	40.00
1 year.....	2 to 3 ft.	.50	4.00	30.00

While the Advance is not as extensively planted, as some other nectarines, it is nevertheless a good early variety and is always in demand on the market.

The fruit is large and rather oval in shape with a greenish colored skin, nearly covered with a very dark red when ripe. Flesh is of a greenish white color and of high flavor. Its time of ripening is about the middle of July.

To anyone desiring an early nectarine the Advance is well recommended.

**Boston** The Boston nectarine is a seedling originated from a peach seed planted by Mr. T. Lewis of Boston, Mass., and while not as highly flavored as some of the other varieties it is considered to be of excellent quality.

The tree is hardy and a heavy producer. The fruit is of oval shape and very attractive in appearance. Skin is a deep yellow color slightly mottled red with a crimson cheek. Flesh is yellow to the pit, juicy and of pleasing flavor. Ripens late July.

**Humboldt** The Humboldt is one of the largest nectarines grown, late in ripening, and is rapidly gaining popularity.

The skin is of a bright orange yellow color, mottled and streaked with red where exposed to the sun. The flesh is of an orange color, juicy, tender, melting, and very palatable. We recommend planting it in home orchards. Ripens in August.

**New White** Is commercially considered the best white nectarine. The fruit is large and almost round, having a fine white skin with often a tinge of red on the exposed side, which makes it very attractive. The flesh is white, juicy, of high quality, and separates freely from the pit.

Owing to its clean showy appearance it is a good variety for local markets as well as for drying purposes. Ripens in July.

**Stanwick** The Stanwick was originated in England and is the recognized leader among nectarines, being of large size and particularly valuable for shipping, drying and canning purposes.

The tree is medium size, having a beautiful dark green foliage. The fruit is exceptionally large in size with a pale greenish skin shaded deep rich violet. The flesh is white, very tender, juicy and separates freely from the pit.

Th Stanwick is highly recommended to the planter as one of the most profitable nectarines grown, always yielding enormous crops which demand the highest prices. We call particular attention to the use of the Stanwick as a dried fruit. It dries heavy and makes a very desirable and attractive dried product. Ripens in August and September.

**Victoria** Was first propagated by Thomas Rivers of England; is a cross of Violette Hative, an old and well known variety, and Stanwick.

The fruit is exceptionally large, round in form and somewhat flat at the top. The skin is of a yellow color on a greenish ground, blushed with deep rich red on the side exposed to the sun. Flesh is very sweet, rich and delicious.

Although of recent introduction to growers of this State it has steadily increased in popularity as a valuable drying and shipping variety. Ripens the middle of August.

## PEARS

California pears have grown very much in favor, and for the past several seasons have been bringing record returns to the growers, both for canning, drying and for eastern shipment.

The pear does well on all soils but prefers heavy loam that is well drained. It has also been found that it will thrive better on alkaline soils than any other of the deciduous fruits.

The localities best adapted for pear culture are the Santa Clara and Sacramento valleys, the foothill regions of the Sierra Nevada mountains, and also the Palmdale and Tehachapi districts. Other districts are being planted on a minor scale. The standard trees are planted 20 to 25 feet on the square, while those budded on quince root are planted from 12 to 15 feet apart.

The trees should be cut back to 18 inches from the ground after they are planted and protected by using tree protectors. They are pruned to vase form. The limbs have a tendency to grow upright, and regular and systematic pruning must be practiced. In pruning the first winter, remove all shoots except three or four, which are to form the head of the tree, and these branches should be cut back at least one-half.

The second winter cut off one-half of the new growth and leave one or two spurs on the branches of the year before. The third season cut all new wood back one-third and remove all branches which crowd the center of the tree.

Pears come into bearing four to five years after planting and profitable crops are picked when the tree attains an age of eight years.

Pears budded on quince are dwarfed as such stock is suitable for planting in home grounds. Most varieties of pears will not form a good union when budded directly on the quince and to overcome this objection we bud Beurre Hardy pear on quince, and the following season bud the desired varieties on the Beurre Hardy wood, which makes a perfect union.

## METHOD OF DRYING PEARS

The fruit should be carefully picked from the trees when they begin to show indications of ripening and laid away until thoroughly ripe, after which they are cut in halves, core removed and spread on trays, placed on truck and run in sulphur house where they should remain for about twenty-four hours where sufficient sulphur should be used to properly bleach the fruit—then spread the trays in the drying yard where they should remain exposed to the sun for ten hours, then trays are stacked so as to permit plenty of ventilation and left until the fruit is sufficiently dry to box.



## Prices of Pear Trees—on Pear Root

		Each	10	100	1000
1 year.....	6 to 8 ft.	\$ .80	\$7.00	\$50.00	\$450.00
1 year.....	4 to 6 ft.	.70	6.00	45.00	400.00
1 year.....	3 to 4 ft.	.60	5.00	40.00	350.00
1 year.....	2 to 3 ft.	.50	4.00	30.00	250.00
1 year.....	1 to 2 ft.	.40	3.00	20.00	150.00

**Bartlett** There has undoubtedly been more money made through the growing of Bartlett pears than from any other variety. Its name was derived from Mr. Enoch Bartlett, of Dorchester, near Boston, who claims to have been the first man to cultivate this variety in the United States.

This sort can be grown in most all sections of the country, but is more largely grown in California than in any other. It is of particular value for its canning and drying qualities as well as being a good shipper. The tree is a vigorous erect grower and a late bloomer, consequently can be depended upon to produce a crop.



Bartlett

The fruit is of large size, skin bright yellow when ripe, inclined to blush on the sunny side, and is of oblong shape, tapering toward the stem. The flesh is exceedingly fine grained, white and buttery, full of juice and very highly perfumed. It is especially adapted to river bottom soils, but if properly cultivated will thrive in clay loams and even adobe. Ripens in August.

**Beurre Bosc** Beurre Bosc develops into a large handsome tree, is a vigorous grower and regular bearer. The fruit is large, pyriform in shape, tapering long and gradually toward the stem. It is always well spaced on the tree giving one the impression it has been thinned. Skin smooth dark yellow in color streaked and dotted with cinnamon russet sometimes red on the sunny side. The flesh is white, very rich, melting, delicious and highly perfumed. Always brings the highest market prices. Ripens gradually from the last of September to the last of October.

**Beurre Clairgeau** As near as we are able to ascertain this pear was raised by Mr. Pierre Clairgeau, of Nantes, France, and was imported into the United States many years ago. Owing to the beauty of the fruit, the early bearing and productiveness of the tree, it is regarded as one of the very best market varieties.

The fruit is very large of a yellow color shaded with orange and crimson often being covered with russet dots and sometimes sprinkled with russet; inclined to be large at the blossom end gradually tapering to the stem. The sides however are usually unequal. Flesh yellowish, juicy, somewhat granular with a sugary vinous flavor. In addition to being a highly recommended market variety it is also very fine for canning and dessert uses. Ripens latter part of September.

**Beurre d'Anjou** The tree of this variety is a good grower and a heavy cropper. The fruit is large, obtuse, pyriform in shape, having a short thick stem and small calyx.

Skin is a greenish color, partially covered with russet and often shaded with a dull crimson. The flesh is white in color, melting, juicy, of vinous flavor and highly perfumed.

Does well in all sections of California. Ripens in September.

**Beurre Hardy** The Beurre Hardy pear is the favorite variety among Nurserymen for budding or grafting on the Quince root, it forming a perfect union and producing a tree that comes into bearing early and produces large crops of fruit. When budded or grafted on the Standard French, or Japanese Pear stocks it also makes a fine upright tree that is vigorous and productive.

It bears large fruit of a greenish color covered with light russet, which is shaded, with brownish red, and sprinkled with brown dots. The flesh is but-tery melting, juicy and highly perfumed. This variety can be grown very successfully on the alluvial soils of the valley and especially on river bottoms. The Beurre Hardy is considered a good commercial sort and by all means a tree or two should be found in all family orchards. Ripens in September.

**Dana's Hovey** Often known as the Winter Seckel. The tree is a vigorous grower and a consistent bearer. This is one of the highest flavored winter pears in existence, being almost equal to that of the Summer Seckel. The only objection to this variety as a market leader is its size; however, when flavor, productiveness and its other good features are taken into consideration it certainly is a fine variety for planting in home orchards and also for supplying local markets.

The fruit is small, pyriform, and regular. The skin is of a greenish or pale yellow, being patched considerably with russet and dotted with brown dots. The flesh is yellowish, juicy, melting, and of rich sugary flavor. Ripens in November but can be kept until latter part of January.



**Doyenne du Comice**

**Doyenne du Comice** Owing to the late blooming and the early bearing of this variety it is considered by many orchard-ists as the money maker among pears.

The tree is a vigorous grower and a regular bearer. The fruit is large, and of roundish shape, tapering to the stem; the skin is waxy yellow in color, covered with a light crimson blush. The flesh is white, fine grained, smooth, juicy and has a delightful aroma. Owing to the fine keeping and carrying qualities some experienced orchardists claim this variety equal to the much favored Bartlett. Ripens in October.



**Easter Beurre** The Easter Beurre is an upright grower, very thrifty but requires a rich soil and rather a warm climate, in order to show best results.

The fruit is large, with a skin of yellowish green, sprinkled with many russet dots and often more or less covered with russet. The flesh is white, fine grained, melting and juicy with a very rich sweet flavor.

By packing this fruit away in boxes, in a dark room, it can be kept for a considerable length of time. It is considered a desirable winter variety both for shipping and home market. Ripens in October.

**Flemish Beauty** Flemish Beauty is one of the older varieties and of Belgian origin. The tree is very hardy, bears abundantly and is very luxuriant, the shoots having a tendency to grow more upright than most any other variety.

The fruit is large, obtuse, pyriform, has a rough surface with a pale ground of yellow covered with patches of light russet, turning to a reddish brown when fully ripe. Flesh is white, rather coarse, rich, melting and slightly musky in flavor.

While this variety is pleasing to the taste and a good bearer we do not recommend it for large plantings owing to its poor keeping qualities. In fact it is almost flavorless unless picked at an early stage and ripened under cover. Ripens in September.

**Forelle** This very attractive pear is sometimes called the "Trout" owing to its finely speckled appearance which somewhat resembles the markings of speckled trout. Its high color and attractive appearance make it a fine variety in its season for market use and fruit basket displays. The skin is of a lemon yellow color; becomes a deep rich red on the sunny side and is marked with large crimson specks. Flesh is white, melting and slightly vinous. This variety is not generally known, but it has a record of being one of the highest priced pears in the Eastern markets. Ripens in September.

**Glou Morceau** Is a very fine pear for table and all commercial uses, being of fine flavor and an excellent shipper.

The tree is a strong, vigorous grower and a good cropper. The fruit is large, of a greenish yellow color splashed with russet.

The flesh is white, very fine grained, sweet and buttery, which make it a great favorite especially for family uses.

Does well in all pear sections of the state. Ripens in December.

**Howell** This variety originated in New Haven, Conn., by Mr. Thos. Howell. The tree is a free upright grower, and an early and profuse bearer.

The fruit is rather large and of light waxy yellow color with a fine red cheek. Flesh is whitish, sweet, rich, melting and highly perfumed. Owing to its size and color it certainly presents a very handsome appearance. Ripens in August but can easily be kept until September.

**Lawson (Comet)** The tree is a very healthy and strong grower, and owing to its early bearing this variety is considered very profitable both for shipping and for home market.

The fruit is of splendid quality and owing to its beautiful, brilliant, crimson color with yellow shading is not only attractive but a good seller on all fruit stands. The flesh is crisp and juicy but owing to its earliness does not attain the high flavor of some other varieties. Ripens in June.

**Madeleine** This variety is of French origin and is highly valued on account of its ripening period, being the first pear to reach the early markets. The tree is a strong grower and a good producer.

The fruit is obovate pyriform in shape and of medium size, having a skin of pale yellowish green, sometimes blushed with a dark red. The flesh is white, juicy and possesses a very delicate flavor. Highly recommended for the family orchard. Ripens the latter part of June.

**P. Barry** Was originated by the late B. S. Fox, of San Jose, California. Its large size, fine flavor and heavy bearing qualities place it as one of the foremost among winter pears.

The tree is a vigorous grower. The fruit is large, elongated, with a skin of deep yellow nearly covered with rich golden russet. Flesh juicy, fine grained and of excellent flavor.

It is claimed by experienced pear orchardists, to be worthy of extensive cultivation, as it has proven to be an excellent keeper. Ripens December.

**Seckel** The Seckel pear, or Summer Seckel, as it is often called, is known to many pear growers through out the East and West as one of the richest and most exquisitely flavored varieties in existence. The tree is one of the hardest and healthiest of all pears, being very compact forming a fine symmetrical head, bearing regularly and abundantly. This pear originated on the farm of Mr. Seckel, near Philadelphia.

The fruit, while small, is regularly formed, having a skin of brownish green at first with a lively russet red cheek. The flesh is whitish, buttery, very juicy containing a rich spicy flavor and aroma.

We consider it a profitable variety to grow where one is so situated as to reach a good local market. No family orchard is complete without one or more of these trees. Ripens in August but can easily be kept under favorable conditions until September.

**Winter Nelis** Winter Nelis is held in very high esteem by experienced pear orchardists in general. It is without exception the finest winter variety yet produced.

The tree is very hardy and a very heavy cropper. Fruit is of medium size and roundish in appearance, yellow in color, covered with russet. The flesh is yellow, sweet and fine grained. Unexcelled for quality when fully ripe. Owing to the fine keeping qualities of this pear it is unexcelled as a good shipper.

This pear is highly recommended as a winter variety for planting, especially in the central coast regions, interior valleys and foothills; however, it is fairly productive in all other regions where any other variety of pear is found. Ripens in December.

**Winter Bartlett** While resembling the summer Bartlett in appearance ripens several months later. The original tree, at Eugene, Oregon, is claimed to have attained a height of forty feet and has produced a good crop each season for the past twenty years. Needless to say this variety is among the best for vigorous growth and bearing qualities.

The fruit is very large, has a yellow skin, perfectly smooth, with a slight blush on the side exposed to the sun and sprinkled with large russet dots. The flesh is rather coarse but tender, juicy and melting.

The unexcelled keeping qualities of this variety, coupled with its fine flavor and its lateness of ripening, make it a very favorable variety among pear orchardists. Ripens November.

## PEAR TREES BUDDED ON QUINCE ROOTS

The Pear when budded on Quince root is dwarfed and such trees are suited for planting in small gardens or orchards where a saving of room is the prime object. The trees also will come into bearing at an earlier stage. The names listed under the prices are the only varieties we have budded on Quince.

### Prices of Pears on Quince Root

		Each	10	100
1 year.....	4 to 6 ft.	\$ .75	\$6.50	\$55.00
1 year.....	3 to 4 ft.	.60	5.50	45.00
1 year.....	2 to 3 ft.	.50	4.50	35.00
<b>Bartlett</b>	<b>Dana's Hovey</b>	<b>Forelle</b>	<b>P. Barry</b>	
<b>Beurre Clairgeau</b>	<b>Doyenne du</b>	<b>Glou Morceau</b>	<b>Seckel</b>	
<b>Beurre d'Anjou</b>	<b>Comice</b>	<b>Howell</b>	<b>Winter Bartlett</b>	
<b>Beurre Hardy</b>	<b>Easter Beurre</b>	<b>Madeleine</b>	<b>Winter Nelis</b>	

## PEACHES

California leads all other states in the production of peaches, in fact it is the leading horticultural product of the state.

Both the Clingstone and Freestone peaches have been bringing handsome returns to the growers and the heavy demand for foreign shipments as well as for home consumption, makes peach growing one of our most profitable industries.

The California Peach Growers Association represents 6,000 growers. It is incorporated for \$1,000,000, and now controls 85 per cent or more of the tonnage sold on the market. Since this Association has been formed, grades have been standardized and prices have been obtained which have been remunerative to the grower and gives an impetus to the planting of new acreage.

The trees do best on well-drained, sandy loam and white ash soils. If planted on heavy soils, care must be taken to have it well drained. The so-called "hard-pan lands," if properly blasted allowing the roots to extend into the deep, free soil below, produces fruit of the finest quality and the trees are very prolific. Such land is usually rough and requires leveling before planting.

It is always advisable to have the land well plowed and harrowed before planting. When the trees are set, cut them back to 18 inches from the top of the ground and shorten in all lateral branches, if any, to two buds.

The first winter after planting cut away all branches up to 12 inches from the ground and leave from three to five branches to form the head of the tree and prune these back to 12 inches. These framework branches should be distributed on the trunk of the tree to prevent crowding and development of forks. Forked trees, when loaded with fruit, are liable to split down and ruin or entirely kill the tree.



The second winter thin out the small lateral branches leaving not more than two or three on each of the framework branches and cut these back about one-half. This system can be followed each year but thinning of lateral branches must be resorted to in order to prevent smothering the inside of the tree.

As a rule, peaches are set from 20 to 24 feet apart. On light soils set the trees 20 feet apart, but on heavier soils 22 to 24 feet is preferable.

The trees in favored localities begin bearing the fourth or fifth year and at six years begin to bear profitable crops of fruit.

Peaches are divided into two classes, viz., Freestone and Clingstones. Some of the very early varieties of the freestones cling slightly to the pit, which, however, is not an objectionable feature. The freestone varieties are used for canning, drying and shipping, while the clingstones are principally used for canning and shipping. The freestones best suited for canning are Foster, Elberta, Lovell and Salway; those for drying are Elberta, Muir and Lovell.

One of the most important points in peach culture is the proper thinning of the fruit. Thin the fruit so that it will not be less than 4 to 6 inches apart and the result will be a fine merchantable product that will command the best price on the market.

## DRYING OF PEACHES

In drying peaches great care should be exercised so as to obtain a clean, well colored, and desirable product which always tends to make it more salable.

Fruit should never be picked, for drying, until well ripened at which time it contains its largest quantity of sugar, dries very rapidly, weighs heavy, and makes a large percentage of fancy fruit. In picking up fruit which has dropped voluntarily, sunburnt and green shriveled fruit should never be taken, as it only tends to lessen the value of the good product and reduces the profits.

In cutting fruit one should be careful to see that a complete circle of the fruit, with the knife, is made otherwise it is partly torn and when dried presents a very poor appearance.



Elberta

In placing the fruit on trays, which are used for sulphuring and drying, it should all be placed face up; the tray having cleats of sufficient height to admit the largest peaches without touching other trays when stacked. These trays should not be allowed to stand longer than is absolutely necessary before entering the sulphur house. When this is allowed a crust forms on the fruit and proper sulphuring is very difficult.

When the fruit is put in the sulphur house, sufficient good sulphur to insure best results is placed in a receptacle usually in a hole in the ground at the end of the sulphur house, about twelve to eighteen inches deep and lighted. The house is then tightly closed and should, in order to receive best results, be allowed to remain closed from six to eight hours after which the fruit is taken from the sulphur house and laid out in a drying yard which should be as smooth and dustless as possible.

To insure best results fruit should be left out in the sun until about one-half dried, then stacked and left in the stacks until it is sufficiently dry to box.

## Prices of Freestone Peach Trees

		Each	10	100
1 year.....	4 to 6 ft.	\$ .70	\$6.00	\$50.00
1 year.....	3 to 4 ft.	.60	5.00	45.00
1 year.....	2 to 3 ft.	.50	4.00	35.00

## Prices of Clingstone Peach Trees

		Each	10	100
1 year.....	4 to 6 ft.	\$ .80	\$7.00	\$60.00
1 year.....	3 to 4 ft.	.70	6.00	55.00
1 year.....	2 to 3 ft.	.60	5.00	45.00

**Admiral Dewey** The Admiral Dewey is without question one of the best of the early fruiting varieties of peaches. Its chief value lies in its being a fine shipping fruit for either local or distant markets.

The tree is a strong grower, hardy and very productive. The fruit is large, uniform, bright yellow in color, blushed on sunny side. The flesh is yellow to the pit and of very high quality. This is the earliest yellow freestone and is highly prized for dessert purposes. Ripens middle of June.

**Albright Cling** This variety was originated by Mr. Albright, near Placer-ville, California and is a great favorite among canners especially in the San Joaquin valley. It ripens about the first week in August thus enabling the canners to make a more continuous run.

The tree is a strong vigorous grower and a good bearer. The fruit is very large and uniform in size, yellow in color, having a bright red cheek on the sunny side. Its quality and flavor are of the best.

**Alexander** The Alexander peach has the reputation of being the best known and most widely grown of the early fruiting varieties. The fruit is medium to large in size and very uniform in shape. The skin is of a greenish white color, partly covered with a deep red; the flesh is white, juicy and of good flavor. We highly recommend the planting of this variety to those who wish to supply their local markets, as well as to all who intend planting in family orchards. Ripens about the 10th of June.

**Bilyeu Late** To those desiring a superb freestone peach which is suitable for table use or for furnishing local markets, late in the season we do not hesitate in recommending the Bilyeu Late.

The tree is an exceptionally strong grower bearing fruits of large, uniform size, greenish white in color, blushed red on sunny side. The flesh is white and of fine flavor. Ripens October 15th.

**Blood Cling** This cling is quite commonly known among fruit growers as the Indian Cling, and is highly prized for pickling and the making of preserves. The flesh is very red and preserves made from this variety present an attractive appearance.

The fruit is large, skin dark red, in color, clouded with purplish red; while it is not considered particularly valuable for eating purposes we certainly do not hesitate to recommend it to anyone desiring a peach of its description for the family orchard. Ripens in July.

**Briggs Red May** Discovered by John G. Briggs, of Yuba City, California. The fruit is of a large size, greenish white in color, with a red cheek on the sunny side. The flesh is greenish white, juicy and melting.

Briggs Red May is a profitable variety in the southern part of the State where it has been more extensively planted than in any other. We do not hesitate to recommend it as an early variety in all sections of California which are adapted to the growing of peaches. Ripens middle of June.

**Early Crawford** This is one of the earliest and best freestones for canning, drying or shipping. The fruit is large in size having a skin of yellow color, tinged with red. The flesh is yellow, rich and of good flavor.

It was originated in New Jersey and is one of the most largely planted early freestone varieties in California. Ripens middle of July.

**Early Imperial** Originated near Vacaville, by Mr. W. W. Smith. The tree is a vigorous strong grower, bearing fruit of good size, deep yellow in color, with a dark red cheek. It is very juicy and firm, for an early variety, which makes it profitable as an early shipper. It is also highly valuable for the home orchard being of fine flavor when used as a dessert fruit. Ripens last of June.

**Elberta** The Elberta enjoys the distinction of being the best known peach throughout the United States. There is probably no other variety grown that is to be found in as many markets and which extends over as long a shipping period.

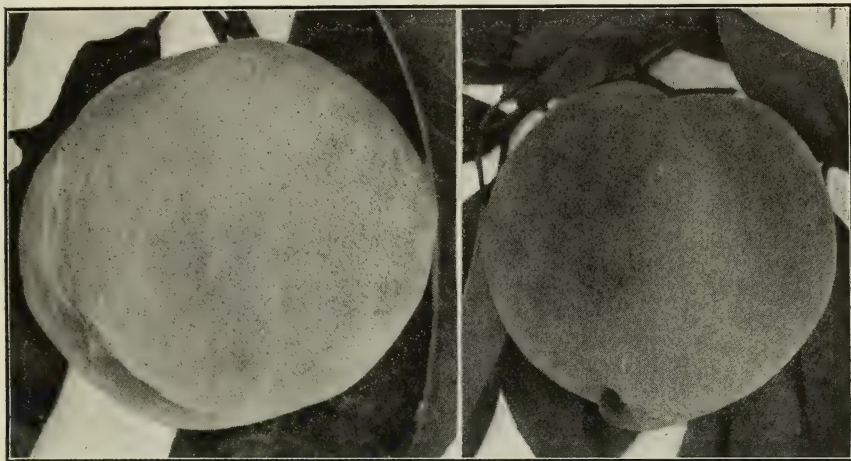
The tree is one of the strongest and most vigorous growers. The fruit is very large, round and of a golden yellow color, faintly striped with red. The flesh is yellow, juicy, with a very high flavor.



Statistics show that during the season of 1916, nineteen hundred and nine cars of green peaches were shipped to the eastern markets from California and it is safe to say that 65 per cent of the total shipments were Elbertas, to say nothing of the amount that was dried, or consumed locally. Ripens last of July.

**Foster** This is another peach of eastern origin and is very well known throughout California. The tree is a very strong grower and a fine producer, ripening about the same time as the Early Crawford and just before the Elberta.

The fruit is large and uniform in size, slightly flattened. The skin is a deep orange in color, with a dark red cheek in the sun. Flesh is bright yellow in color, rich and juicy. It is highly recommended for its table uses and for its fine shipping and drying qualities.



Heath Cling

Foster

Inasmuch as its ripening period is practically the same as that of the Early Crawford, we do not hesitate to say that it is much preferable, particularly as a dried product, the fruit showing up much brighter in color, consequently, demanding better prices on the market. Its ripening period is the middle of July.

**George's Late Cling** This is a large beautiful yellow colored cling, somewhat splashed with a bright red. The flesh is white, and inclined to be of a slight red around the pit.

It is a good shipper and on account of its attractive appearance, seldom, if ever, fails to bring good prices on the market.

The tree is a strong grower and a good bearer and has the reputation in the northern counties of being one of the most profitable of the late clings. Ripens middle of September.

**Greensboro** Is one of the earliest and largest of the white freestones. The fruit presents a very fine appearance when hanging on the tree, placed in the fruit basket, or when sliced to be used as a dessert.

The skin is of a creamy white with a dainty blush of red. The flesh is white, juicy and of good flavor.

Greensboro was originated by J. A. Young, of Greensboro, North Carolina, and is claimed to be a favorite among the early varieties in that section.

**Hale's Early** This peach is a large early freestone and originated in the state of Ohio. The skin is of a greenish color mottled with red when ripe; the flesh is white, melting and rich.

Hale's Early is a fine variety for house use and is considered a good variety for local markets. One particularly good feature about this peach is the fact that it is very easily peeled. Ripens early in July.

**Heath Cling** As a clingstone variety the Heath Cling is unequalled by any other variety of its color or season.

The fruit is very large. Skin is creamy white in color, having a faint tinge of red on the sunny side. The flesh is of a greenish white color, very tender, possessing a rich flavor and a pleasing aroma which is unequalled by any other of the late canning varieties.

It is quite frequently seen on exhibition among Chamber of Commerce ex-

hibits and at fruit fairs, where it attracts much attention. Besides its high value as a canning variety it is exceptionally fine for pickling and for the making of preserves. Ripens the middle of September.

**Late Crawford** This peach is widely known throughout the entire United States. In California it has been extensively planted and good profits have been derived from it. It is a good shipping peach and is equally good for drying. It enjoys the distinction of being one of the oldest varieties planted in this State.

The fruit is large, roundish, having a yellow skin and a dark red cheek. The flesh is deep yellow in color inclined to be reddish at the pit. Ripens early in August.

**Levy Late or Henrietta Cling** Originated by W. W. Levy, Washington, D. C., and has for several years been one of the leading late clingstones of that section.

The tree is a strong grower and a heavy producer. The fruit is large in size and roundish in shape. The skin is a deep yellow bearing a rich brownish shade on the sunny side. The flesh is a rich deep yellow, firm and juicy, ripening the middle of September.

In some sections this variety is very much favored by canners as it ripens after the Phillips Cling and allows them to increase their pack by lengthening their season. We recommend the planting of this variety in all home orchards.

**Lovell** Originated in California as a chance seedling and is one of the most widely planted and highly favored of any freestone variety in California today.

The tree is a vigorous grower and a heavy bearer. The fruit is very uniform in size, almost perfectly round; yellow in color. The flesh is fine, firm, yellow to the pit and contains a large percentage of sugar.

The Lovell is the best canning, drying and shipping freestone peach grown. There is scarcely a year passes that the producer could not dispose of his crop of Lovells in any one of the three ways mentioned at a profitable price.

We do not hesitate to state that we consider this variety one of the very best peaches to plant. Its time of ripening is the last part of August or the first part of September just as the Muirs are going out.

**Mayflower** This is one of the earliest freestone varieties and is highly regarded by all lovers of peaches for dessert purposes.

The tree is a strong grower, late bloomer and consequently favored by those growing peaches for early market purposes. The fruit is of a light green color nearly covered with red. Flesh is creamy white, fine grained, and delicious.

This peach is approved for all sections of California and every planter should have one or more of the Mayflower Peach trees. Ripens early in May.

**McDevitt Cling** Belongs to the Orange Cling family and was originated by Mr. Neil McDevitt, of Placer county. Its time of ripening causes it to be in demand for canning purposes.

The tree is a strong grower and a regular bearer. The fruit is of a golden yellow color becoming flushed with red when fully ripe. It has a very firm, solid flesh with superior flavor.

Besides being highly prized as a canning peach it is also considered valuable as a shipper. Ripens the last of August.

**McKevitt Cling** Originated with Mr. A. McKevitt in the Vaca Valley and is another of the white clings which is very popular throughout California.

The fruit is of a beautiful white color, with a faint blush of red; has a very firm, fine grained flesh, sugary, rich and possessing an extremely high flavor. It is considered by some to be superior to the Heath owing to the fact that it is entirely white throughout.

This variety is highly recommended for canning and should be found in every home orchard. Ripens the last of August.

**Morris White** One of the finest freestone peaches of its ripening period. The tree is a thrifty grower and a good producer.

The peaches are large, oval in shape and perfect freestone. Skin is white, becoming rather a pale straw color when fully ripe.

Flesh is white, juicy, tender and possesses a very rich flavor.

This variety is one of the very best for the family orchard collection or for local market use. Ripens in August.

**Muir** The Muir is the King or Queen, as it might be called, of all the freestone peaches for drying purposes in California. It was originated on the place of John Muir, near Silveyville, California, but was first propagated by Mr. G. W. Thissell, of Winters, California. It is very large in size and a perfect freestone, having a clear yellow flesh, which certainly presents a most beautiful appearance when properly dried.



In addition to its attractive appearance it contains more sugar qualities than any other peach, which allows it to dry exceedingly heavy, making it a very profitable variety to the producer. We feel that this peach is so widely known and favored among California planters that it is needless for us to mention all of its good qualities.

We believe that anyone who contemplates planting a peach orchard for drying purposes should certainly not overlook the Muir. The California Peach Grower's Association have demonstrated that this variety is the only one that can be "Process Peeled" successfully. Time of ripening latter part of July.

Originated on the grounds of J. H. Peak, near Selma, California, and is very similar to the Phillips cling.

It has practically the same color, and size, having a small pit. It is a good keeper and enjoys about the same popularity among valley canners, where grown, as the former.

In sections where planted it seems to ripen somewhat earlier than the Phillips being ready to pick shortly after the Tuscan.



Phillips Cling

**Phillips Cling** Phillips Cling was originated by Joseph Phillips, of Sutter County, California, and first propagated by J. T. Bogue, of Marysville, California. It enjoys the reputation of being the best peach for canning purposes as it is of a very even size, practically the same color all through; has a very small pit, is exceedingly rich in flavor and highly colored. It remains on the tree well which gives ample time for harvesting and delivering. Its lateness of ripening also makes it a great favorite with the canners as it prolongs their season thus enabling them to put out a much larger pack.

The fruit has a beautiful yellow skin with a bright tinge of red on the sunny side. Flesh is very fine grained and of a lemon yellow color. The tree is a very vigorous grower and a heavy producer and for this reason is a great favorite among orchardists. Ripens early in September.

**Salway** The late ripening of this peach makes it a great favorite in California, for dessert purposes, coming in at a time when practically all other freestones are gone. It is also a good variety for drying purposes enjoying the distinction of losing less weight in drying than any other variety. We do not recommend the Salway as a drying peach, on account of its late ripening, the drying process often being hampered on account of early rains.

We believe, however, this is one of the best varieties to plant for late shipment to eastern as well as local markets. We have never known a time when late freestone peaches were not in demand for dessert purposes.

The skin is of a yellow color having a brown, or red cheek. The flesh is yellow and inclined to be red at the pit. While it is not very juicy it possesses a very pleasing flavor. Ripens middle of September.

**Sellers Orange Cling** Another of the orange cling variety and which was introduced by James Shinn, but originated on the ranch of S. A. Sellers, Contra Costa county. It is highly favored by many growers in the different cling growing districts of California because of its productiveness. It is also highly valued by canners for its fine color and uniformity of size and on account of its favorable ripening period. While the Orange Cling of late years has not brought as large prices per ton, as the Tuscan and Phillips, it must be remembered that the tree is a very heavy producer

and in many sections makes up for the difference of price in tonnage.

The fruit is large, uniform in size and a beautiful golden color. The flesh is a deep golden, very firm and of good flavor.

Canners recommend Sellers Orange as one of the best mid-summer varieties. Ripens early in August.

**Sneed** The Sneed was originated in North Carolina and has proven to be an early fruiting variety of merit.

The tree is a vigorous grower and a heavy bearer. The fruit is of a beautiful creamy white color with a red cheek on the sunny side. The flesh is white, juicy, melting and delicious and has a tendency to cling to the pit.

On account of the fine quality of this peach and its earliness of ripening, coupled with its good shipping and market qualities, we feel that we should highly recommend it to all planters as one of the very best of the early varieties. Ripens latter part of May.

**Strawberry** To those desiring a good early white peach we recommend the Strawberry. The skin is of a creamy white color, partly covered with a dark red. Flesh is very white, with a tendency to be quite red near the pit; juicy and possesses a rich flavor. We recommend the planting of this variety in all home orchards. Ripens early July.

**Susquehanna** The Susquehanna is supposed to have originated on the banks of the famous river by that name in Pennsylvania, and has become a very popular variety.

The tree is a good grower and a heavy producer. The fruit is of large size, having a deep yellow color, partly covered with red. The flesh is yellow, juicy, and possesses a rich flavor.

In former years this variety was planted very extensively for drying purposes but it is now being bought up and shipped extensively by green fruit shippers to the eastern markets.

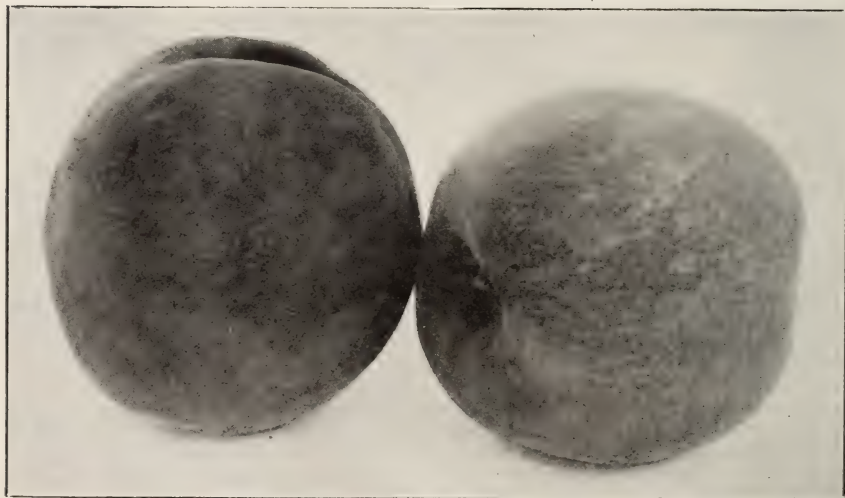
It ripens just a trifle later than the Elberta which makes it quite valuable for both shipping and drying. Ripens middle of August.

**Triumph** Originated in Georgia and is one of the most profitable of the early varieties.

The tree is an unusually strong grower and a heavy producer. The fruit is of medium size; flesh yellow in color, very fine and possesses a good flavor.

The Triumph has proven itself to be unusually profitable for market purposes. In the Santa Clara valley, to which it is well adapted, we have known it to yield planters as much as \$1,000 per acre.

We do not hesitate in recommending the Triumph to anyone wishing to plant peaches for the early market. Ripens the middle of June.



Tuscan Cling

**Tuscan Cling** The Tuscan Cling peach, ever since its introduction, has been acknowledged as being the best early clingstone variety on the market for canning on a commercial scale and is always in great demand and commands the highest price for canning peaches.

The fruit is very large and yellow in color presenting a fine appearance when canned. The tree is a strong grower and a heavy producer and is par-



ticularly adapted for planting in the interior valley and foothill sections.

We know of Tuscan cling orchards that under good care and cultivation have produced from twelve to fifteen tons of fruit per acre.

To anyone familiar with the growing of cling peaches in California, we believe the Tuscan needs no further recommendation. Ripens the middle of July.

**Wheatland** Originated in New York and is a good variety for both drying and shipping.

The fruit is large, roundish in shape and golden yellow in color being of a crimson color on the sunny side. The flesh is yellow, firm, juicy and sweet.

The Wheatland has been more largely planted throughout the San Joaquin valley than in any other section and has brought very satisfactory returns to the parties both for drying and shipping purposes. Ripens in August.

**Yellow St. John** This is one of the best of the early peaches. Fruit is large in size, of roundish shape, orange yellow color with a deep red cheek. It is very juicy, sweet, and a perfect freestone. We recommend the Yellow St. John for home orchards and also for planting in a commercial way as it has proven itself to be one of the most profitable of the early varieties. Ripens late in June.

## NEW VARIETIES OF PEACH TREES

Prices of Peach Trees—New Varieties—On Peach Root

		Each	10	100
1 year.....	4 to 6 ft.	\$.80	\$7.00	\$60.00
1 year.....	3 to 4 ft.	.70	6.00	50.00

**J. H. Hale** Originated by J. H. Hale, of Georgia, and is heralded throughout that section as one of the greatest peaches ever discovered.

The tree is a very strong and vigorous grower having much the appearance of the Elberta. The fruit is of a deep golden yellow color, overspread with bright red; has a smooth thick skin and compares very favorably with the Elberta in shape. The flesh is firm, fine grained, and deep yellow in color.

It enjoys the distinction of being a much better shipper, throughout the east, than any other freestone. Has not been planted extensively on this coast but having many good qualities we feel safe in commending it. Ripens last of July.

**Oklahoma Beauty** Is of eastern origin and is a very highly valued variety for dessert purposes on account of its early ripening period. The fruit is round in shape, white in color and blushed red on the sunny side which gives it a very pleasing appearance.

Every home orchard should contain a tree of this variety. Ripens in May.

**Oklahoma Queen** The Oklahoma Queen was originated in Oklahoma by Rev. Alfred Connett, the same being a seedling of the famous Connett's Southern Early Peach.

The tree is a strong rapid grower producing fruit that is very large; the skin of which is white, beautifully blushed and marked with red on the sunny side. The flesh is white, juicy and of a pleasing aromatic flavor. We consider this variety a valuable acquisition to the early varieties of peaches. Ripens middle of May.

## PLUMS

For the convenience of our customers, we have listed plums and prunes separately. The prune is nothing more or less than a plum which has a sweet firm flesh that is capable of making a commercial dried product without removing the pit or seed.

Plums so designated are the varieties that are used as fresh shipping fruit and for home and commercial canning.

The plum thrives in all parts of the state and adapts itself from the foothill ranges of the Sierra Nevadas to coast regions, and when given proper attention bear enormous crops of fruit.

Planters in the interior valleys are beginning to realize that good marketable varieties of shipping plums are bringing handsome returns. The early fruiting varieties are ready for the market in June and July when the Eastern market is bare and the demand is heavy, and these returns come to the grower when he can use the money to good advantage in taking care of his later crops.

Plums are budded on myrobolan and peach roots. The peach root should be planted in sandy and loam soils, while the myrobolan or plum root is adapted to heavy, moist soils.

We cannot put too much emphasis on the proper preparation of the soil before planting. It should be well plowed, cultivated and harrowed so that plenty of good top soil can be used in filling in around the tree. When blasting has been resorted to, the ground should be irrigated before planting

to settle the earth and close all air crevices. When the tree is planted, cut it back to 18 inches from the top of the ground. The first winter the pruning required is to form the head of the trees cutting back the frame work branches one-half. The second winter all laterals should be removed except two on each of the framework branches, and cut those remaining to one-half. After the fourth year all the pruning necessary is to thin out the overlapping and interfering branches.

In planting a plum orchard it is advisable to plant more than one variety for the purpose of cross pollination. Such varieties as Wickson and the Tragedy prune can be made to produce regular heavy crops if the orchard is intermingled with rows of plums which bloom at the same period. Overbearing, however, should not be allowed, as the fruits will be small and it will sap the vitality of the tree, usually causing a light crop to follow the second year.

The shipping varieties are the most popular, but if planters are conveniently located near canneries they can find a ready sale for the popular canning sorts, such as Jefferson, Washington and Yellow Egg.

The finer shipping varieties are rich and luscious and for the best flavor should be allowed to remain on the tree until fully ripe, but for shipping to the Eastern markets they must be picked a few days earlier so that when they reach the auction market they will be in prime condition.

#### Prices of Plum Trees—On Peach and Myrobalan Roots

		Each	10	100
1 year.....	.6 to 8 ft.	\$ .80	\$7.00	\$50.00
1 year.....	.4 to 6 ft.	.70	6.00	45.00
1 year.....	.3 to 4 ft.	.60	5.00	40.00
1 year.....	.2 to 3 ft.	.50	4.00	30.00

**Apex Plumcot** This is one of the earliest plums. The tree is a strong upright grower very compact and has the reputation of being a good producer wherever planted.

The fruit is very large and a light crimson in color.

The flesh is a honey yellow color, very aromatic, rich and delicious. Highly valuable for the family orchard. Ripens in June.



**Formosa**

**Beauty**

Originated by Luther Burbank, of Santa Rosa, California, and is one, if not the best, of the early shipping plums.

It is of exceptional value for shipping to Eastern markets as the fruit, when picked green, will color up and develop its delicious flavor later. Owing to its earliness, showy appearance and size, which runs from two to two and one-quarter inches in diameter, it commands the highest prices on all markets.

The tree resembles the well known "Formosa," is of upright habit and vigorous growth, a heavy producer, and has very dense foliage which gives ample protection to the fruit.

The fruit is decidedly heart shaped and for this reason makes an easy and attractive pack. The skin being a beautiful crimson color, freely sprinkled with whitish dots presents a fine appearance on the market. The flesh is amber in color permeated with crimson.

We highly recommend the Beauty for planting in all valley and foothill sections of California. Ripens in June.



**Burbank** Another of the Japanese type of plums introduced by Luther Burbank, of Santa Rosa, California, and was named after him by Prof. H. E. Van Deman. It is considered one of the best of the Japanese type.

The growth of the tree is somewhat different from any other plum, being of a spreading habit with a flat top. The fruit is large, bright red in color, slightly mottled with yellow. Flesh is rich yellow, juicy and very sweet.

Owing to the early age at which this tree bears and its usual productiveness it is considered by orchardists as well as many fruit shippers to be a good variety for commercial planting throughout the central coast valleys, interior and foothill sections as well as southern California districts. Ripens last of June.

**Climax** This variety was originated by Luther Burbank, of Santa Rosa, California, and on account of its early ripening period and its good shipping and market qualities is one of the most profitable plums grown.

The tree is a strong grower and owing to its early and heavy bearing qualities is inclined to droop. The fruit of the Climax is quite large, heart shaped, and a very dark red in color. The flesh is yellow and of good flavor.

When planted in large acreage orchardists have experienced no trouble in disposing of the crops at good figures for shipment to eastern markets. While it is particularly adapted to the interior valleys and foothill sections it does very well in central coast valleys and in the southern part of the state. Ripens middle of June.

**Clyman** The Clyman is one of the earliest freestone varieties and is considered a good shipper. Its chief value however lies in its efficiency as a pollinizer when planted with other varieties of plums.

The tree is a strong, thrifty grower and a heavy bearer. The fruit is large, roundish to oblong in shape and a reddish purple in color, covered with beautiful blue bloom. The flesh is firm, rather dry and very sweet.

Recommended for the interior valleys and foothill sections. Ripens in June.

**Damson** This variety enjoys the distinction of being more widely planted and better known on the markets than any other plum. Its qualities for the making of preserves, jellies, pies, dumplings, etc., are unequalled by any other plum.

The tree is a strong grower and is exceedingly productive. The fruit is small, oval in shape, with a purple skin covered with a thick blue bloom. The flesh is tart and separates readily from the pit.

We particularly recommend this plum for home use and would suggest that in selecting trees for family orchards that one or two Damsons be included. Ripens in September.

**Extra Early Cherry** This is a very valuable plum for the family orchard. The tree is a strong grower and a good producer.

The fruit is highly valued for the making of jelly and jam and on account of its extreme earliness is very valuable for early market purposes.

Ripens first part of June.

**Diamond** The Diamond plum is of English origin and is considered a very valuable variety for shipping. Owing to its ripening period the fruit reaches the market at a time when other plums cannot be obtained, bringing the producer very satisfactory returns.

Tree is a strong grower and an immense bearer. The fruit is of large size, oval in shape, having a skin of dark purple covered with a light blue bloom. Flesh is deep yellow, juicy with a brisk acid flavor. Ripens in August.

**Formosa** A late creation by Luther Burbank, of Santa Rosa, California, and a plum which we highly recommend and one that is rapidly coming into popularity with the leading fruit shippers.

The tree grows large, strong and vigorous and has a dense light green foliage. The fruit is heart shaped, uniform in size averaging in circumference six inches one way to seven and one-half the other way. The skin is of a light cherry red color with a very pale bloom changing when fully ripe to a rich deep red. The flesh is of a delicate yellow, firm, juicy and very delicious.

When placed on the market it presents a very attractive appearance due to its high color and shape. We especially recommend the planting of Formosa in the interior and coast valleys, and foothill sections. Ripens in June.

**Gaviota** This is one of the latest blooming varieties of "Burbank's" introductions, which invariably assures the planter of a crop of fruit. Gaviota plums have been exported to foreign countries with success. It is undoubtedly one of the best shipping and keeping plums on the market.

The fruit is round, sometimes oblong, of a deep reddish purple color. Flesh yellow and sweet to the pit, which is exceptionally small.

We recommend the planting of this variety in the coast and interior valleys and foothill sections. Its time of ripening is from July 15th to August 5th.

**Giant** The Giant is another one of the large family of plums introduced by Luther Burbank. It is a seedling produced from a cross between the Petite d'Agen (French Prune) and the Hungarian Prune.

The tree is a handsome, strong grower, and an excellent bearer. The fruit is very large, flesh yellow, freestone and of good flavor.

Its time of ripening, together with its shipping and lasting qualities, have gained for it a high standing among commercial planters as well as fruit shippers.

It is highly recommended for planting in interior valleys, foothill sections and also does well in central coast valleys. The time of ripening is late August.



**Grand Duke**

**Grand Duke** The Grand Duke is classed as a leader among late shipping plums.

The fruit is very large and attractive having a dark skin, almost black, covered with a deep blue bloom. The flesh is firm, with a yellow tinge, and has a slight tendency to cling to the pit. Its time of ripening and also its attractive appearance make it a very valuable plum for shipment to the eastern market for at this time of the season there are very few plums, answering its description, to be found on the market.

We especially recommend planting it in the interior valleys, foothill sections and in the central coast valleys. Time of ripening late August.

**Green Gage** Green Gage is more widely known throughout the United States and European countries than any other plum on account of its popularity as a superb canning fruit.

The tree is of slow growth, short, and of rather dwarfish habit. It, however, is a regular and heavy bearer. The fruit is of medium size, of yellowish green color, often dotted or marbled with red. The flesh is pale green exceedingly juicy, melting, and decidedly free from the pit.

We particularly recommend this variety for commercial, as well as home planting. Ripens about the middle of August.

**Jefferson** This variety was originated near Albany, New York, about the year 1825. It is known among canners and plum growers in general, as one of the most desirable as well as one of the most beautiful plums grown. Its flavor is almost equal to that of the Green Gage. However, its large size and attractive appearance places it ahead of that variety as a canning and market sort.

The fruit is large, oval, slightly narrowed on one side. The skin is golden yellow with a beautiful red cheek covered with white bloom. The tree is a moderate grower, a good producer and when loaded with ripe fruit presents an appearance which is seldom equalled by any other variety of plum. We especially recommend it for planting in the central coast and interior valleys, also the foothill sections. Ripens July to September.

**Kelsey Japan** The Kelsey plum is of Japanese origin and has been extensively planted in California since 1870. Its size and good keeping qualities has made it a favorite among the late shipping varieties.



The tree has a vigorous upright growth and is a regular bearer. The fruit is very large heart shaped, skin green changing to a rich yellow when fully ripe. The flesh is yellow, very firm, and adheres slightly to the pit.

While it can be grown with success in the upper and central coast valleys it is particularly adapted to interior valleys and foothill sections. Ripens July to September.

**Santa Rosa** Santa Rosa is one of the best of the late Burbank introductions and owing to its large oval shape and beautiful purplish crimson color it is an excellent plum for shipping purposes. It attracted great attention at the Lewis and Clarke exposition and was awarded a gold medal.

The tree is of upright growth and a heavy bearer. The plum is large and uniform in size. Skin purplish crimson color with a pale yellow bloom. Flesh is yellow, streaked and mottled with red, juicy and of rich flavor.

While this plum has not been planted extensively, it has steadily gained in favor during the last three years and bids fair to be one of the leading varieties for shipping purposes in California. It is recommended for planting in central coast, interior valleys and foothill sections. Ripens June and July.

**Satsuma** The Satsuma, or Blood plum as it is commonly called, is one of the Japanese varieties and is highly recommended among housewives in general for the making of jellies, preserves, etc. While we do not recommend a large planting of Satsuma plums we have known of cases where good profits have been secured from the sale of this variety by planters who were close to local markets. We believe that every family orchard should contain a Satsuma plum tree.

The fruit is large and almost round and of a deep dark red color. Flesh is firm, blood red, juicy and of good flavor with a very small pit. The tree is a strong grower and a heavy producer. It ripens July to September.

**Vacaville Blue** Also known as California Blue. This variety was originated near Vacaville, California, and on account of its size and appearance is very valuable for Eastern shipment.

The tree is a strong grower and a good producer.

The fruit is very large and a deep purple in color. Flesh is yellow, very firm and of excellent flavor.

This plum ripens about the same time as Climax or Santa Rosa and those wishing an early plum for shipping will do well to plant this variety. Ripens middle of June.

**Vesuvius** This variety is sometimes known as the purple leaved plum and on account of its beautiful foliage is found valuable for grouping in parks or home grounds.

The tree is a strong grower of upright habit. Leaves are of a beautiful dark purple in color. While it is a fruit producing tree its chief use is as an ornamental.

**Washington** This is one of the Eastern varieties that has been extensively planted on the Pacific Coast with good results.

The tree is a strong grower and a very heavy bearer. The plums are very large, roundish in shape, being a yellowish green in color, often bearing a pale red cheek. The flesh is very firm, sweet, rich and luscious.

We do not hesitate to recommend the Washington for canning purposes. Ripens in August.

**Wickson** Was originated by Luther Burbank and classed by many growers and shippers as a popular shipping plum. The fruit of Wickson resembles the Kelsey in a great many ways but is more symmetrical and when ripe ranges from a deep cherry red to a rich scarlet. The flesh is of an amber tinge and quite juicy with a very small pit and is valuable for its long keeping qualities. The tree is a very vigorous, upright grower.

While this variety is particularly adapted and recommended for planting in the central coast, interior valleys and foothill sections it can be planted most any place in California, with good success. Ripens in August.

**Yellow Egg** Is often called the Egg Plum on account of its shape. It is very popular and highly regarded for its canning qualities. During the last two or three years canners have been scouring the country for Yellow Egg plums, ready to contract with growers for crops at fancy prices.

Fruit is of large size, often measuring as much as six inches by its longest circumference. The skin is yellow, often bearing white dots, covered with a thin white bloom. Flesh yellow, rather acid, but becoming sweet when fully ripe, and has a tendency to cling to the pit.

Owing to its attractive appearance it is highly recommended as a canning plum and as a good market variety. Thrives well in all parts of California. Ripens July and August.

## PRUNES

The prune is one of the most important fruit industries of the Pacific Coast. All the standard varieties are planted throughout California, while in Washington and Oregon, especially in the coast regions, planting is confined principally to the Fellenberg, commonly known as Italian, it being practically the only variety suitable for the northwest. In California the French Prune (Petite Prune d'Agen) is the principal variety, followed closely by the popular sorts, such as Imperial, Robe de Sargent and Sugar, which latter varieties appear to thrive best along the Northern California coast regions, especially in Sonoma Valley and northward. These varieties are used for drying, while the Tragedy and Hungarian are used for fresh shipping, bringing handsome returns to the planter by producing regular crops of fine fruit every year. The Tragedy ripens in early July and planters have found it to their advantage to plant the Climax plum as a pollinizer, which enlarges the size of the fruit as well as insuring regular and abundant crops.

Prunes are budded on almond, peach and myrobolan roots. The almond root for dry gravelly soils, the peach root for light sandy silt, and loamy soils, while the myrobolan is suited for heavy, wet soils, especially those which have poor drainage, also for river bottoms where there is a standing high water level. The prune delights, however, in the rich, deep loams, where it bears regular and large crops of fruit.

The trees should be planted from 20 to 25 feet apart. The same general pruning instructions should be followed as in pruning the plum, with the exception that in some varieties of prunes, especially the Sugar severe pruning is required each season, cutting back all new growths to one-half and even two-thirds, and all the fruit spurs should be shortened in. Long, stringy growth of wood which forms long, barren, bearing surface should be overcome, as this condition is liable to occur in any plum or prune orchard, especially in localities where there is a long growing period. Under such conditions should the orchardist find that he is at a loss to know how to prune his trees for best results he can readily find some one who understands this work or secure the information especially suited for his particular orchard from the nurseries located near him.

We are always ready to assist our friends and customers in giving such information as they desire relative to the best methods of taking care, pruning and handling of their orchards, and it is a pleasure to us to give such assistance when requested.

The price of dried prunes is based on the number of fruit in a pound. Those varieties showing the largest fruits and having the largest contents of sugar, as well as a fine appearance after being processed, command the high prices.

### Price of Prune Trees—On Apricot, Peach, Myrobolan and Almond Roots

		Each	10	100
1 year.....	6 to 8 ft.	\$.80	\$7.00	\$50.00
1 year.....	4 to 6 ft.	.70	6.00	45.00
1 year.....	3 to 4 ft.	.60	5.00	40.00
1 year.....	2 to 3 ft.	.50	4.00	30.00

**French** The French or (Petite d'Agen) enjoys the reputation of being more widely grown in California than any other prune.

The tree is a very vigorous grower, and bears abundantly in most all sections of the State. The fruit is of medium size, egg shaped, has rather a thin neck and a deep violet color. The flesh is of good quality, sweet, and very sugary. It certainly has no equal as a drying prune.

We believe larger profits have been derived of late years from French prune orchards than from any other variety of fruits, and for this reason do not hesitate to highly recommend large commercial plantings of this variety.

**Hungarian** This prune originated in Belgium and has been referred to by some as Ponds Seedling. The tree is a very vigorous grower and a strong bearer.

The fruit is of large size, beautiful dark red color, and is very profitable for shipping purposes. In many cases it is cut and dried in the same manner as an apricot, and exposed before drying to the fumes of sulphur.

The dried product has a bright red color and is sold commercially as "Ruby Plums." It is recommended for planting in most all sections of California. Ripens middle of August and September.

**Imperial Epineuse** This prune is successfully grown in the northern part of the state, as well as many sections of the interior valleys. It is highly prized for its drying qualities, on account of its large size and beautiful color. When properly packed, it presents an appearance in the prune market which cannot be equalled by any other variety.

The tree is a strong thrifty grower, and in the sections mentioned, is a heavy



bearer. Fruit is large, uniform and of a beautiful violet purple color, with a dark blue bloom. The flesh is of a greenish yellow, very sweet, and contains a small pit. The fruit when dried is considered superior to all other varieties in size, flavor and sweetness. Owing to the high quality of this fruit, we feel that we should particularly recommend it. Ripens August and September.

**Robe de Sargent** This prune was introduced from France and is highly prized for preserving as well as for drying purposes. The tree is a strong grower and on account of the leathery texture and glossy appearance of the foliage is very attractive.

The fruit is of a large oval shape, having a skin of deep purple color, being nearly black when fully ripened and covered with a blue bloom. Flesh is of a greenish yellow color, and possesses a fine sweet flavor. The fruit when dried is nearly always classed as fancy and brings the highest price to be obtained on the market. In the central coast and interior valleys it is a good bearer and highly recommended for planting in these sections.

**Silver** Is said to be a seedling of Coe's Golden Drop to which it is very similar.

The tree is a strong grower and bears very profitable crops.

The fruit is large in size and a pale yellow in color, presenting a very fine appearance. The flesh is firm and rich and is used principally for canning.

This is one of the best of the late varieties. Ripens the latter part of September.

**Standard** A variety originated by Luther Burbank, of Santa Rosa, California, and is a cross between the Sugar and Tragedy.

It is of large size, purple in color, overspread with a thick blue bloom. Flesh is amber, fine grained and of good flavor. In addition to making a fine dried product it is also a good shipper.

While it cannot be grown successfully over as large a territory as some of the other prunes, it is well recommended for planting in the central coast and interior valleys. Ripens middle of August to middle of September.

**Sugar** This is another of the many creations of Mr. Burbank and has certainly been a source of revenue to many prune growers.

The tree is a very strong and vigorous grower and a heavy bearer. The skin is of a dark purple color and overspread with a white bloom. Flesh is yellow and very rich.

On account of the abundance of sugar contents in this fruit and its early period of ripening we do not hesitate to say it is one of the very best for both shipping and drying purposes. It dries rapidly and weighs heavy. It is highly recommended for planting in the central coast and interior valleys and foothill sections. Ripens about the first of August.

**Tragedy** The large and attractive appearance of this variety has won for it the distinction of being one of the best shippers in the state. Statistics show that in certain seasons it has been more largely shipped to Eastern markets than any other prune or plum in California. It is a beautiful dark purple in color, being elongated in shape, flesh is of a yellowish green, very rich and juicy; its early ripening has also much to do with making it a favorite among prune and plum growers. While it is particularly adapted for shipping, it also makes a fair dried product.

The tree is an upright strong grower, and is found in the central coast and interior valleys and foothill sections to be a heavy bearer, consequently is well recommended for planting in these sections.

We suggest to those who intend planting Tragedy prunes for commercial purposes that they plant one-fourth of the acreage with Climax plums, for pollination purposes. This will act not only to increase the size of the fruit but cause the tree to produce larger crops. Ripens early July.

## QUINCES

The quince has not been planted on a very large commercial scale, in fact it has been relegated to the small orchard and home garden.

The local California market does not consume enough of this popular canning fruit to warrant a heavy planting, but there is unquestionably a market in the Middle West and Southern States where outlets can be found.

Large canneries in the East are ready to contract for the fruit in quantities with orchardists, at remunerative prices, but auction markets have not, as a rule, brought satisfactory returns.

The tree thrives best in moist alluvial soils, but will do well in heavy soils if the same can be irrigated and at the same time be well drained. The trees do equally well on the coast as in the interior valleys and every home orchard should contain one or more of these trees.

When the trees are planted, cut them back to 18 inches from the top of the ground. If tree form is desired, the pruning the first winter should be to cut

back the new shoots forming the head of the tree one-half. The limbs are inclined to sprawl over the ground and to prevent this in the earlier years systematic heading back is required. When planted in orchard form the trees can be set 16 feet apart if so desired.

The varieties as listed herein are all suited to California conditions and the favorite varieties are the Apple or Orange, also the Pineapple, the latter being a recent introduction of very high quality.

#### Prices of Quince Trees—On Quince Root

		Each	10	100
1 year.....	4 to 6 ft.	\$ .75	\$6.00	\$50.00
1 year.....	3 to 4 ft.	.60	5.00	45.00
1 year.....	2 to 3 ft.	.50	4.00	35.00

**Apple or Orange** The former part of the name of this variety was given on account of its shape which resembles very much that of the apple. The latter on account of its color which resembles that of the orange. The tree is a strong grower, abundant bearer, and has a fine oval shaped foliage, which is very attractive. This variety is probably more largely found in the home orchards and in local markets than any other.

The fruit is of a fine golden color when ripe, having a smooth skin. The flesh is golden yellow in color, fine and of excellent flavor, highly recommended for the making of preserves. Suitable for planting in all fruit sections of this state. Ripens August and September.



#### Apple or Orange Quince

**Champion** Known as the Champion among quinces on account of the exceptional size of the fruit. It has a fine yellow color strongly russeted. The flesh is very tender and delicious and is often used in cooking with other fruits so as to impart its flavor.

The tree is a strong handsome grower and a heavier producer than any other of its class. Champion does well in all sections of California. Ripens late September.

**Pineapple** Originated by Luther Burbank, of Santa Rosa, California, about the year 1899.

The Pineapple quince was so named on account of its very high quality and unsurpassed pineapple flavor. The fruit resembles an apple in appearance and is smooth, globular, of a light golden yellow. The flesh is white and will cook tender in five to ten minutes.

This variety is considered the best of all, and is highly suited for planting in all parts of California and should find a place in every home orchard. Ripens late August.

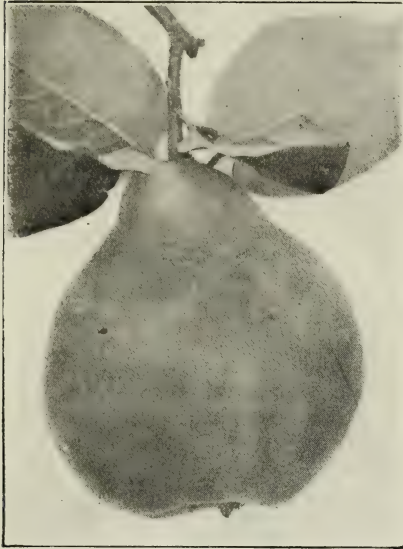


**Reas Mammoth**

Originated by Joseph Rea, in Green County, New York State. The tree is a healthy and thrifty grower and a good producer, producing fruit very much similar to that of the Apple or Orange quince but much larger in size.

The skin is of a light yellow color when fully ripe. The flesh is yellow, tender, and of good quality.

This variety is very attractive for table and fruit basket decorations as well as for its culinary uses and should be found in all family orchards. Can be planted in all sections of this state. Ripens in October.



Smyrna

**Smyrna**

This is one of the leading varieties of quinces and was introduced from Smyrna, about the year 1897, by Mr. George C. Roe-ding, of Fresno, California. The tree is a strong, vigorous grower, possessing an abundance of foliage, which makes it very attractive from an ornamental standpoint, as well as affording ample protection for the fruit. On account of its dense foliage it is classed as the leader for planting in interior valley sections.

The fruit is large and of beautiful lemon color. Flesh is tender with a delicious flavor and is an excellent variety for the making of preserves and jellies.

It is also considered valuable for market purposes on account of its attractive color and its good keeping qualities. Suitable for planting in all parts of California. Ripens September to October.

**ALMONDS**

The culture of almonds in California exceeds all other varieties of nut-bearing trees, except the walnut. The crop in California for 1917 was over 6,600,000 pounds of commercial nuts and of which over 75 per cent was controlled by the California Almond Growers Association. As it is, we only supply 25 per cent of the almond nuts used in this country, the other 75 per cent being imported from Spain, Italy and France.

The tree finds genial conditions throughout California in favored sections, free from late spring frosts, for its development of tree and nuts.

It prefers a loose, light, warm, well-drained soil, as the roots penetrate deeply and will stand drouth better than if planted in heavy, moist soils.

We grow these trees on almond and peach roots; the former should be planted in the hillside soils while the peach root will stand the heavier soils.

The largest almond section is found in the Sacramento Valley, but they are also being planted extensively in the San Joaquin Valley and in Paso Robles district of San Luis Obispo County.

When planting, set the trees 25 feet apart and cut them back to twenty inches from the ground.

The following winter thin out the limbs, leaving three or four to form the head of the tree and as far as possible have them properly distributed, cutting them back about one foot. The second winter's pruning should be made by cutting back the new growth to one foot and leaving a few of the inside branches, provided, however, they do not crowd the interior of the tree. The following winter all the pruning required will be to thin out overlapping or crowded branches, and such pruning can be carried out in future years.

Cross pollination is one of the most important features in planting almonds. The best fertilizing varieties are Drake's Seedling and Texas Prolific and should be planted with such varieties as Nonpareil, IXL, Ne Plus Ultra, Languedoc and Peerless alternating at least every fourth to sixth row with either Drake's Seedling or Texas Prolific. These last two varieties not only produce abundant crops of commercial nuts but by their fertilizing the other varieties their tonnage is also increased to an important degree.

The crop is harvested by shaking the trees and by whipping the nuts that do not fall, with light poles, preferably bamboo, so they will not injure the bark on the limbs of the trees.

The nuts should be hulled at once and spread on trays and exposed to the sun for a few days, turning them over so that they will be thoroughly dry before sacking or boxing. Do not expose the nuts to sulphur fumes until they are dry, as the fumes will injure the flavor of the kernel. Before sulphuring sprinkle the nuts with water so that the shell is slightly moist. They should be sulphured from two to three hours. The sulphuring is not absolutely necessary as nuts can be readily sold without this bleaching of the shells.

Almond trees as a rule make a heavy, sturdy growth in the nursery row, and the largest size of these trees do not usually go over four feet.

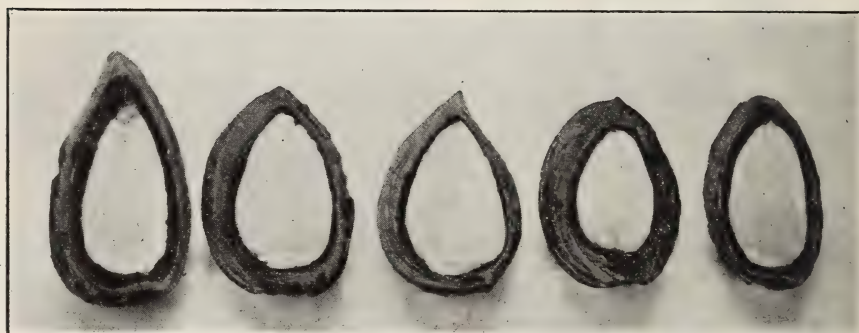
#### Prices of Almond Trees—On Almond and Peach Roots

		Each	10	100	1000
1 year.....	4 to 6 ft.	\$ .70	\$5.00	\$40.00	\$350.00
1 year.....	3 to 4 ft.	.60	4.50	35.00	300.00
1 year.....	2 to 3 ft.	.50	4.00	30.00	250.00

**Drake Seedling** This variety is of the Languedoc class and was originated on the grounds of Mr. Drake, of Suisun, California. The tree is a strong grower and a heavy bearer; in fact it has the reputation of bearing regularly in sections where the Languedoc is a total failure. One reason for its heavy bearing is the fact that it is very late in blooming, consequently is more free from frost than any other variety.

The tree while being a strong grower and very healthy does not grow as large as some of the other varieties. A point making this variety very desirable is that it produces at an early age. The nut is of medium size and roundish in shape. The shell is medium soft and white, bearing a short plump kernel of good color. Doubles are often found in this variety, but this is more than offset by its good flavor and heavy bearing qualities.

The Drake's Seedling is recommended for planting in most all almond sections of California; by the leading almond growers. Blooms first week in April.



#### Ne Plus Ultra I. X. L. Texas Prolific Drakes Seedling Nonpareil

**Eureka** The Eureka is very similar in shape and flavor to that of the Jordan but somewhat smaller in size. It is much more in demand, however, on account of its having a soft shell while the Jordan is a hard shell. The tree is an exceptionally strong grower and a very heavy bearer.

On the farm of Mr. A. M. Newland, Colusa, California, where it was originated, can be found an orchard of Eureka's, which is over twenty years old and has never failed to produce a crop since old enough to bear. The Eureka is a great favorite among confectioners and we do not hesitate to recommend it for commercial planting as well as for family orchard purposes. Blooms latter part of March.

**I. X. L.** The I. X. L. is one of the Hatch varieties of the fine soft shell type of almonds.

The tree of the I. X. L. is a sturdy upright grower, producing large nuts which are very easily hulled. The shell is soft and smooth; the kernel is large and very plump.

One of the features which makes this variety in demand is the fact that the shell possesses a fine color without bleaching. This variety always brings a high price in all markets and to our knowledge has never been lower in price than second in the entire list of almonds. The I. X. L. should be planted in connection with Texas Prolific or Nonpareil. It blooms middle of March.

**Jordan** The Jordan is a hard shell and has been extensively planted in most all almond sections. It is largely used by confectioners for the making of sugar coated and salted almonds as it possesses a very rich high flavor.

The tree is a strong vigorous grower and a heavy bearer. The nut is long and narrow having a long slim kernel.

Jordan almonds are probably more widely known to the general public than any other variety. Blooms latter part of March.



**Ne Plus Ultra** This almond was introduced by Mr. A. T. Hatch, formerly of Suisun, California, and is a regular and heavy bearer. The tree is a strong grower and inclined to have a drooping habit. It presents a very fine appearance on account of its large foliage.

The nut is long and narrow in shape and has a soft shell. The kernel is very large, sweet and highly flavored. Hulls freely and is considered a favorite among almond growers for commercial purposes. Blooming period middle of March.

**Nonpareil** The Nonpareil has probably been more largely planted during recent years than any other. The tree is a very strong grower, inclined to be of a weeping habit, and on account of its fine foliage presents a very beautiful appearance. It has the reputation among almond growers, in all sections where grown, as being a heavy and regular bearer.

The nut is large, long and narrow having a thin shell and a good color. The kernel is long, fills the shell well and possesses an excellent flavor. It commands the highest prices on the market, selling from one to three cents higher than any other variety.

We highly recommend the Nonpareil for planting in all almond sections of California. Blooms last week in March.

**Peerless** The Peerless almond is rapidly coming into favor in the almond districts of the Sacramento Valley and is proving to be a regular and heavy bearer.

The nut resembles that of the I. X. L. in shape and general appearance; the kernel is short, plump and of fine quality. Blooms about the middle of March.

**Texas Prolific** This is one of the popular varieties of almonds grown in this state. It was originated in Texas and brought to California about the year 1891, and bears the distinction of being about the only almond that would bear in that district.

The tree is equal to that of the Drake's Seedling for its heavy bearing qualities but grows much larger. It is of an upright habit, having a smooth wood and a fine foliage. It is a late bloomer, consequently is almost sure to escape damage from late frosts. The nut is of medium size having a soft shell which is white in color. The kernel is short, plump and very sweet.

We know orchards of Texas Prolific that have been bearing for fifteen years and have never failed to produce a fine crop. We feel that we cannot too strongly recommend the Texas Prolific to all planters who contemplate planting almond orchards. Its value as a pollinizer must not be overlooked. Blooms last of March.

CHESTNUTS

The principal varieties of chestnuts planted in California are the Italian or Spanish and the Japanese. In later years the French varieties, Marron Combale and Marron de Lyon, also several varieties introduced in the Eastern States, have been planted here. There is no question but that the Marrons and the Eastern varieties produce much finer quality nuts than the Italian or Spanish, and they are rapidly coming into favor.

There are many sections in California suited for their culture, especially in coast counties. They thrive well on heavy clay soils, as well as in deep loam or sand, provided that it is retentive of moisture and deep enough to let the roots penetrate it readily. In the interior valleys the river bottom soils are the best. Aside from its being a desirable nut-bearing tree, it is ornamental and used both as specimens and for avenue planting. The trees should be planted 50 feet apart; on very light, gravelly or sandy soils they can be planted 40 feet each way. When the trees are planted, cut them back to 3 feet and allow three to four branches to form the head of the tree. All the future pruning required is to thin out over-lapping branches and keep the center of the head open. These trees, where planted in good soils and where climatic conditions are favorable, will begin bearing nuts after three years from transplanting.

Prices of Grafted Chestnut Trees

	Each	10
2 to 3 ft.....	\$1.00	\$8.00

**Marron Combale** Planted quite extensively in California, with very satisfactory results. It is of French origin and quite superior to many of the other varieties of chestnuts.

The nut is large, sweet and possesses a fine flavor. The foliage is glossy and presents a pleasing appearance as well as being a vigorous grower and productive.

**Marron de Lyon** This is another one of French origin and is claimed by growers of chestnuts to be valuable.

The nuts are roundish in shape and very large. The tree is a vigorous grower and is much prized for its ornamental appearance.

**Numbo** Originated at Morrisville, Pennsylvania, and is a fine variety. The tree is a strong grower, compact, and a heavy producer. The nuts are large, attractive in appearance, and of good flavor. Highly valued in many sections where chestnuts are more extensively grown.

**Paragon** It is known among chestnut growers as one of the largest. The kernel is fine grained and of good quality. The tree is a strong vigorous grower, of spreading habit, and a heavy producer. Highly recommended in all chestnut growing districts.

**Ridgely** Originated in the State of Delaware; differs considerably in its bearing habits, from other varieties in that it often produces two or three chestnuts in one burr. The nut is attractive and contains a kernel of high quality. It is known among chestnut growers as one of the hardiest and best of all varieties for commercial purposes.

#### Prices of Chestnut Seedlings

	Each	10	100
4 to 6 ft.....	\$1.00	\$9.00	\$80.00
3 to 4 ft.....	.80	7.00	60.00

**Seedling** While much smaller in size than the grafted varieties of chestnuts the seedling is a very vigorous grower, a heavy producer and valuable on account of its high flavor. The kernel is sweet and prized as a dessert nut.

It is found in many sections of California and throughout the East where the tree grows to an exceptional size and bears abundantly.

## PECANS

It has been proven that in favored sections of California, especially in the Sacramento and San Joaquin valleys, that the pecan thrives well, making a rapid growth and producing abundant crops of nuts. The trees thrive in a variety of soils, doing well in moist river bottom soils as well as in clay or porous sand, and also in the hardpan lands where the necessary precaution is taken to blast it thoroughly so that the roots will have no difficulty in reaching down through the lower stratas.



#### Stuart

In the coast regions the trees thrive well, but the nuts rarely mature owing to the fog and cold weather which delays the proper ripening before the dormant season sets in.

The trees should be set from 40 to 50 feet apart, using 50 feet space in heavy rich soils, which are conducive to making heavy growths on the trees. It is advisable to plant more than one variety for the purpose of cross pollination. In setting the tree care should be taken to dig the hole at least 3 feet deep, filling in the bottom of the hole with good, rich top soil and set the trees 3 inches deeper than they stood in the nursery row. Cut the tree back to 3 feet after it is set. Three or four branches should be left the second season to form the framework of the tree. Very little pruning is required in after years, simply remove any dead or overlapping branches and shorten in such branches that make an excessive growth and will spoil the uniformity of the tree.

We recommend the planting of the budded varieties for fruiting purposes, as such trees will bear uniformly fine nuts while the nuts of seedling trees usually are very irregular in size and have harder and thicker shells and do



not command as high a price on the market as those produced from budded or grafted stock.

The age a pecan tree must attain before bearing depends largely on the soil and the care given. Under proper conditions these trees will begin bearing from five to six years after planting, and after eight or nine years will produce profitable crops, increasing their yield rapidly thereafter.

#### Prices of Pecan Trees—Grafted Finest Paper-shells

	Each	10
1 year.....4 to 6 ft.	\$2.50	\$20.00
1 year.....3 to 4 ft.	2.00	17.50
1 year.....2 to 3 ft.	1.50	12.50

**Frotscher** The Frotscher is highly prized among pecan growers for its large size and good quality.

The tree is a vigorous grower of spreading habit, heavy bearer and always produces an extremely fine flavored nut, which is oblong in shape and often measures as much as  $1\frac{3}{4}$  to  $1\frac{1}{2}$  inches in length. It is quite frequently covered with purplish black markings and has the reputation of being the most attractive of any of the pecans.

The kernel is large and on account of the thin shell is very easily removed. Although it has not been extensively grown in California it has given good results wherever planted.

**Stuart** Originated at Ocean Springs, Mississippi, by Mr. W. R. Stuart. The tree is a strong grower, has large beautiful foliage, which makes it very ornamental. It is considered to be very profitable on account of its heavy producing qualities.

The nuts are large in size, often averaging from one and one-half to two inches in length, oblong in shape, and brownish in color. The shell is medium thin, being well filled with a bright colored kernel, which is of excellent flavor. Experiments have proven the superiority of this variety over all others for planting in California.

**Van Deman** While the shell of this variety is not as thin, therefore, not as easily cracked as some of the others, it bears the reputation of being one of the largest nuts of the pecan family often averaging from one and seven-eighths to two and one-eighth inches in length.

It differs much from other pecans in shape, as it is long and slender, and rather pointed at both ends.

It bears a full plump kernel brownish yellow in color, and very highly flavored, the tree is a strong vigorous grower and on account of its beautiful foliage is very attractive as an ornamental tree, as well as for its commercial value. We highly recommend the planting of this variety.

#### Prices of Pecan Seedlings

	Each	10	100
4 to 6 ft.....	\$1.00	\$8.00	\$70.00
3 to 4 ft.....	.80	7.00	60.00

**Seedling** The Seedling pecan grows well in all parts of California. The tree resembles very much that of the eastern hickory nut.

It is a strong grower and on account of its heavy bearing qualities, we consider it a valuable addition to any family orchard. There are seedling trees to be found in the San Joaquin valley which will measure as much as sixty feet in height and having a spread of fifty feet. The nuts are much smaller than those of the grafted varieties but possess a fine flavor, although they are usually too small and the shells are too hard for commercial purposes.

**Pistachio** Is sometimes called the Green Almond and is used extensively for coloring and flavoring confectionery. When boiled in salt water they have a very pleasing taste and are a favorite nut in some European countries.

The Pistachio tree does well in the warm interior valleys and is growing in popularity in California. A valuable addition to the family orchard collection.

#### Prices of Pistachio Seedlings

	Each	10
3 to 4 ft.....	\$2.50	\$20.00

## WALNUTS

Walnuts are the most important nut fruit grown in California, in fact we produce four times as many walnuts as almonds, and the demand for the fine budded and grafted varieties is increasing each year. Planters are willing to pay the increased price for the finer, thin-shelled varieties, rather than risk planting seedlings which bear crops of irregular small and hard-shelled nuts. In the southern counties of the state the English varieties such as Placencia Perfection, Santa Barbara Soft Shell, Neff's Prolific and Eureka are in great-

est demand, while in the central and northern parts of the state the French varieties, such as Franquette, Mayette, etc., are valuable on account of being late bloomers and not usually affected by late spring frosts, and they also bear nuts of fine quality which command the top price on the market.

The walnut should be planted in deep, rich loam soils, but if planted on hardpan land the holes should be thoroughly blasted to a depth of not less than 3 feet, all hardpan removed and the holes filled in with good top soil.

The trees should be set 50 feet apart, either in orchard form or along avenues, and it is advisable to plant more than one variety for the purpose of cross pollination.

When the trees are planted, cut them back to 3 feet from the top of the ground. Very little pruning is required. After the head of the tree is formed remove only such limbs that cross or overlap and shorten in any that may cause the tree to become lopsided and spoil the proper form desired.

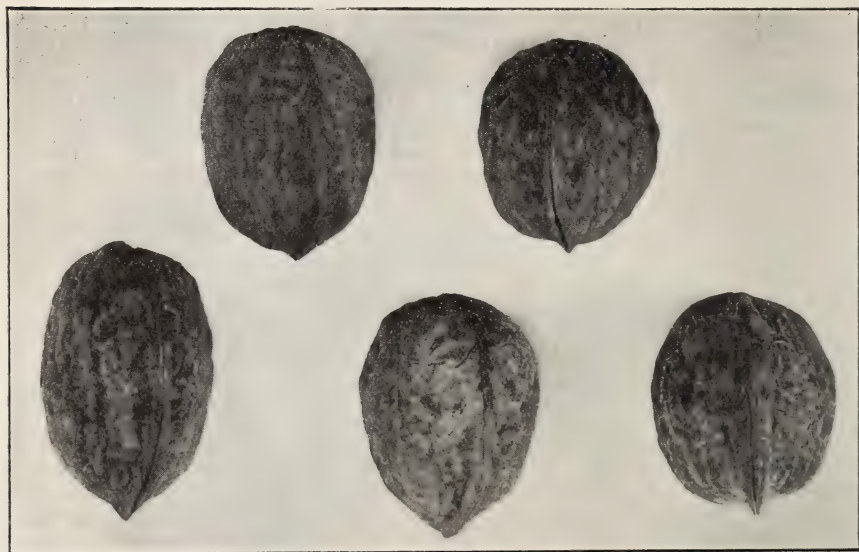
#### Prices of Walnut Trees—Grafted on American and Calif. Black

	Each	10	100
8 to 10 ft.....	\$2.50	\$22.50	\$200.00
6 to 8 ft.....	2.25	20.00	175.00
4 to 6 ft.....	2.00	17.50	150.00

### Eureka

Is declared by walnut growers to be one of the most reliable producers. It is about ten days later in blooming than other varieties.

The tree is a strong upright grower and a heavy producer. The nuts are of large size, soft shell, smooth in appearance and highly valued for commercial purposes. The kernel is of good color, plump, and very rich in flavor. In the southern sections of California, where walnuts are extensively planted, the Eureka is considered as being one of the very best.



Eureka

Concord

Mayette

Placencia

Franquette

### Franquette

Originated in France and is more widely known and planted throughout the different walnut sections of California, Oregon and Washington than any other variety.

The tree is a strong grower and a very prolific bearer. The nuts are of large size, long and smooth. The shell is of medium thickness, bearing a full, sweet and very rich kernel, of high flavor.

The Mayette is of French origin and is one of the leading varieties, having many of the good qualities to be found in the Franquette.

The tree blooms late in the spring and is a very heavy bearer. The nuts are large, uniform and inclined to be flattened at the base. The shell is of a light color, soft, and contains a plump kernel of very fine flavor.

While not as extensively planted as the Franquette, we believe the Mayette is almost equal to that variety; the nuts always commanding the highest market price.

For pollination purposes it is advisable to plant it with the Franquette as both trees will then bear more abundantly than if planted alone.



Originated in Southern California, on the ranch of **Placentia Perfection** Mr. J. B. Neff, Anaheim, and is supposed to be a selected variety of Santa Barbara Soft Shell.

The tree is a strong grower and a good bearer and is highly esteemed by walnut growers in the southern portion of the state. The nut is of large size, with a smooth thin shell, the kernel is white and sweet, and in flavor is equal if not superior to any of the other varieties.

Prices of Seedling Walnut Trees

	Each	10
8 to 10 ft.....	\$1.25	\$11.00
6 to 8 ft.....	1.10	10.00
4 to 6 ft.....	.90	8.00

**American Black** The home of the American Black walnut is the Eastern sections of the United States. The tree grows to an exceptional size, is very hardy, and considered very valuable for its wood which is used largely for cabinet making. The nut is of medium size, has a very hard shell, and possesses a plump kernel, which has a fine rich flavor.

It is planted quite extensively in some sections as an ornamental shade tree and is well adapted for this purpose.

**California Black** The California Black walnut resembles the American Black. The tree grows large, having much the same habits as the American Black but produces nuts of smaller size.

On account of the large quantities of soft shell walnuts grown in California the California Black nut is little used for dessert purposes. It is, however, a decided favorite with California Nurserymen for propagating purposes.

**Paradox** This variety is one of the hardiest and fastest growers in existence. It is said by those best able to judge that it grows fully a third faster than the California or native black walnut.

The timber produced from this variety is fine grained and very light in color.

We recommend the planting of Paradox not only for its valuable timber but for its excellent shade and ornamental uses.

OLIVES

Olive planting is commanding wide attention in this state, especially in the interior valleys where they reach their highest state of perfection, and when given proper care in pruning and cultivation respond with abundant crops.

Olives make handsome specimen, border and avenue trees. Their light gray foliage, contrasting with other trees and vines, make a picturesque landscape effect as well as producing fruit now selling at values that are not equalled by any other commercial fruit product.

The Mission variety has a fine upright growth and is best suited for the above purposes, while Manzanillo, Sevillano and Ascolano, being spreading growers, are usually planted in orchard form. These four varieties comprise the best pickling sorts on the market. For oil production the Mission is considered the best.

Olives thrive best on deep, well-drained loam, and should be planted 30 feet apart, either on borders or in orchard form. We make it a rule to cut back all of our trees before shipping, the pruning required dependent upon the size of the tree. As the trees are dug they are pruned immediately, the roots are immersed in thick mud to exclude them from the air and prevent their drying out. When planters receive their stock it should be immediately unpacked and trenched in and the ground soaked with water, and when planting only a few trees should be taken out of the trench and these carried in the field with the roots wrapped in wet burlap.

When the trees are planted, cut them back to 20 inches, shortening in any lateral branches at least to 2 inches. The first winter after planting, cut off all growth except four or five branches which are left to form the head of the tree and these should be so distributed around the trunk as not to cause crowding or overlapping in future years. When pruning the second year, leave from one to two lateral branches on each frame-work branch and cut them back one-half. The future pruning of the tree is to preserve its shape and not allow overlapping and crossed branches to grow.

Olive trees do not, as a rule, come into bearing until they have been planted out for at least five years; from that time on the trees will bear heavier each year. A ten-year old orchard should produce two tons of fruit to the acre. Fancy prices are ruling this year and growers are contracting Sevillano and Ascolano from \$300 to \$400 per ton, while Mission and Manzanillo are selling at \$250 to \$300 per ton. When the olives are used for oil the price ranges from \$75 to \$100 per ton.

Statisticians advise that the California olive crop for 1916, as packed, was 3,600,000 quarts of pickled olives and 350,000 gallons of oil was pressed. A

wonderful showing—and yet, by September 1st, 1917, olive oil was entirely sold and practically the entire pack of pickles had been disposed of.

#### Prices of Olive Trees—(Except Ascolano)

	Each	10	100	1000
1 inch and up.....	\$1.00	\$9.00	\$80.00	\$750.00
$\frac{3}{4}$ to 1 inch Caliper.....	.90	8.00	70.00	650.00
$\frac{5}{8}$ to $\frac{3}{4}$ inch Caliper.....	.80	7.00	60.00	550.00
$\frac{1}{2}$ to $\frac{5}{8}$ inch Caliper.....	.70	6.00	55.00	500.00

**Manzanillo** The Manzanillo olive was introduced from Spain and is one of the most highly recommended and extensively planted of all varieties. The tree is a strong grower of a decided weeping habit. The foliage is darker in color than that of the Mission.

The fruit of the Manzanillo is large, oval in form, and has a distinct tit at the lower end and is almost black when fully ripe. While the Manzanillo and Mission are about equal in price on the market, the Manzanillo being two weeks earlier in ripening gives it a considerable preference in sections where early frosts are likely to occur.

It is highly recommended for the making of green and ripe pickles, as well as for the making of oil. Ripens early in October.

**Mission** Mission is one of the oldest and best varieties of olives known having been brought to this country by the old Spanish Padres and grown around the old mission from which it derived its name. Some of the old trees are still to be seen growing which gives an idea of the long life of the olive tree.

While the tree of this variety is very ornamental it is also very profitable. It grows large and is a very heavy producer. The fruit is medium to large and while oblong in shape is more round on the lower end than the Manzanillo. Flesh is very firm and is highly recommended for the making of both green and ripe pickles, as well as oil. Ripens late in October.

#### Prices of Ascolano Olive Trees

	Each	10	100
$\frac{3}{4}$ to 1 inch Caliper.....	\$1.35	\$12.50	\$100.00
$\frac{5}{8}$ to $\frac{3}{4}$ inch Caliper.....	1.25	10.00	90.00
$\frac{1}{2}$ to $\frac{5}{8}$ inch Caliper.....	1.00	9.00	80.00

**Ascolano** This variety is known as the "White Olive of Ascoli." It has been largely planted in California and is well recommended in all the olive sections.

It is of extremely large size, often being as large as a French prune, which it also resembles in shape. The tree is a strong spreading grower, has a beautiful foliage and produces large, early and abundant crops. The fruit is of a bluish black when ripe and is highly flavored. It is one of the best of the Italian varieties for pickling. Ripens the first of November.

## CITRUS FRUITS

One of the largest and most important horticultural industries in California is that of Citrus Fruits; oranges, lemons and pomelos ranking in importance in the order named; the largest citrus belt being south of the Tehachapi in the interior counties. Favored localities are also found in the San Joaquin and Sacramento valleys where this fruit is grown to perfection on a commercial basis, especially along the foothill regions of the Sierra Nevada Mountains.

Even with the large acreage of citrus fruits in this state not one-half of the land suitable for their culture has been planted.

The soils best adapted for their culture are the deep, heavy and rich loam, being retentive of moisture and yet well drained. The Washington Navel oranges are usually planted 24 feet apart. Valencias from 24 to 26 feet apart; lemons and pomelos 24 feet apart. This is the usual planting scale. For the slower growing varieties, such as Satsuma oranges, Mexican limes and Kumquats 14 to 16 feet apart is sufficient, as they do not grow into large trees.

After the ground has been thoroughly plowed, cultivated and leveled, it should be staked off, marking where the holes are to be dug. There is nothing that so mars the appearance of the orchard as having the rows of trees out of alignment. The holes should be dug at least 18 inches square and the same depth. This will allow sufficient room to work the soil well around the ball of the tree.

In case the holes are blasted out the soil should be settled with water before the trees are planted.

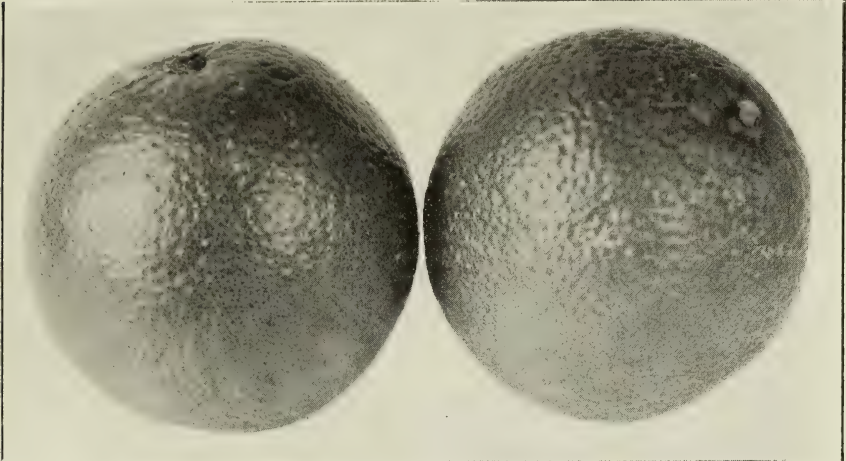
Great care should be taken not to allow the ball of earth around the root to dry out before planting, and they can be kept in splendid condition by sprinkling with water and keeping the soil moist.

We take every precaution to deliver trees to our customers in the best condition possible, and if planters will exercise the same care that we do after they receive their stock, their loss, if any, is very nominal.



As a rule, all of our citrus trees are headed back to 26 inches and planters should protect the bodies of the trees at least the first two or three years by using tree protectors, which will protect the bodies from sunburn and also against squirrels and rabbits girdling them, causing gumming disease or entirely destroying the trees. Planters can well afford to give their trees this extra care and protection.

Our trees are budded on sweet and sour orange seedlings. Those budded on the sour seedlings being best adapted to the heavier soils and such trees will better withstand the gum disease.



Washington Navel

Citrus trees, as a rule, require but very little pruning. They are naturally of a weeping habit and the first upright branches should be selected to form the head of the tree. The pruning required from then on is only to cut back any growth of a rampant nature and remove interfering or overlapping branches. The purpose is to secure a well-rounded, symmetrical head. As the tree develops, all dead branches should be removed, and those failing to bear fruits should be cut off, also all water sprouts and suckers should be cut away as they appear.

Citrus fruits, as a rule, come into bearing the third or fourth year after planting. When an orchard is eight years old it will begin bearing profitable crops. There are exceptions to this, however, and some orchards in favored localities have borne large crops of fruit the fifth and sixth years after planting.

Citrus trees not only produce bountiful crops of luscious fruits, but they are being planted for ornamentation in landscape effects, their beautiful, dark green foliage contrasting with many of the fine ornamental trees and shrubs.

ORANGES

Prices of Orange Trees (Except Satsuma)—On Sweet and Sour Roots

	Each	10	100
1 inch and up.....	\$2.50	\$20.00	\$175.00
¾ to 1 inch Caliper.....	2.00	18.00	160.00
⅝ to ¾ inch Caliper.....	1.75	16.00	150.00
½ to ⅝ inch Caliper.....	1.50	14.00	130.00

**Mediterranean Sweet** For many years this variety has been planted throughout the different orange sections. The fruit is medium to large having a skin of fine texture. The pulp is very good and has but few seeds. The tree is inclined to be of a dwarfish habit, but is a very heavy bearer. Ripens fruit as late as May or June.

**Ruby Blood** The tree is a strong, vigorous grower and a heavy bearer. While it is not extensively grown or used for market purposes it is highly prized for home use. The tree when loaded with fruit is very ornamental and makes an attractive addition to either the front or back yard. The fruit is medium in size, nearly round, having a thin smooth yellow skin. The pulp is rich, very juicy, streaked with a blood red, ripens January to April.

**Satsuma** The Satsuma orange bears the reputation of being the hardiest of all edible oranges. The tree is of a spreading and drooping habit and bears fruit at any early age.

The fruit is of medium size and rather flat in shape and deep orange in color. Flesh is fine grained, tender, sweet, delicious and so few seeds are ever found that it is termed seedless.

This is undoubtedly one of the best of the Mandarin family and on account of its heavy bearing qualities, its early ripening and its many other attractive features, should be found in all home grounds. Ripens October to December.

**Thomson Improved Navel** Was discovered by A. C. Thompson, of Duarte, Los Angeles county, California. It is a very fine fruit of high quality and fine appearance. It is supposed by orange growers to be a natural variation of the Washington Navel. However, in some localities, chiefly where planted for family use, it is preferred to the Washington Navel.

Its time of ripening is November to January.

**Valencia Late** Is the leading summer orange and very similar to the paper rind St. Michael in color and texture. The fruit is large, oblong, firm and juicy, with very little rag. Ripens late, reaching the markets when all other varieties are gone, thus commanding the best of prices.

Valencia Late should be planted only in sections that are practically free from frosts.

Fruit ripens in June but will remain on the tree in good condition as late as September.

**Washington Navel** This, the leader of all California oranges, was imported from Bahia, Brazil, in the year 1870, by Mr. W. Sanders, of the Department of Agriculture at Washington. It is said to derive its name from the fact that it was first grown in Washington and also from the peculiar formation of the blossom end of the fruit.

The more this variety has been cultivated and exhibited the more popular it has become until now it is classed as the queen among oranges, and is more widely grown than any other variety.

The tree is a strong rapid grower and a prolific bearer. The fruit is medium to large, juicy, possessing a fine flavor and so few seeds are ever discovered that it is termed as seedless.

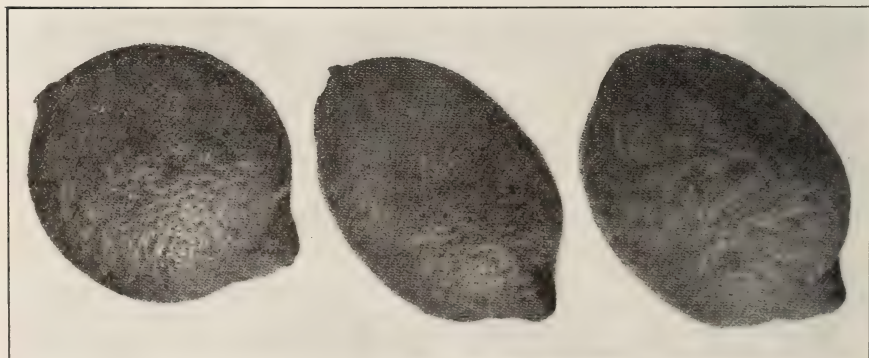
#### Price of Satsuma Orange Trees

Each .....\$2.50

## LEMONS

#### Prices of Lemon Trees—On Sweet and Sour Roots

	Each	10	100
1 inch and up.....	\$2.50	\$20.00	\$175.00
$\frac{3}{4}$ to 1 inch Caliper.....	2.00	18.00	160.00
$\frac{5}{8}$ to $\frac{3}{4}$ inch Caliper.....	1.75	16.00	150.00
$\frac{1}{2}$ to $\frac{5}{8}$ inch Caliper.....	1.50	14.00	130.00



**Eureka**

**Lisbon**

**Villa Franca**

**Eureka** The Eureka originated by C. R. Workman, of Los Angeles, California, bears the reputation of being more widely grown in California than any other variety of lemons.

The tree is a vigorous grower and unlike other varieties is practically free from thorns. The fruit is of medium size, smooth, glossy and an excellent keeper. In many sections of the state it blooms and sets lemons all the year around.



This is a very attractive feature of the Eureka as lemons are usually much in demand during the summer months and at this period it might be said the Eureka produces more lemons than at any other. It is also regarded as very valuable in sections where frost sometimes occurs on account of its having several crops.

Aside from its strong growing and heavy bearing qualities it is highly ornamental as there is no other variety of fruit which blossoms and bears fruit at the same period of the year.

**Lisbon** While first grown in California by Mr. D. M. Burnham, of Riverside, is supposed to have originated in Portugal. The tree is a strong grower, a prolific bearer and has a beautiful compact foliage, which is highly ornamental. While young the tree is inclined to be very thorny, but the thorns disappear as the tree grows older.

The fruit is uniform in size, rather oblong in shape, having a thin skin, fine grain, and plenty of acid.

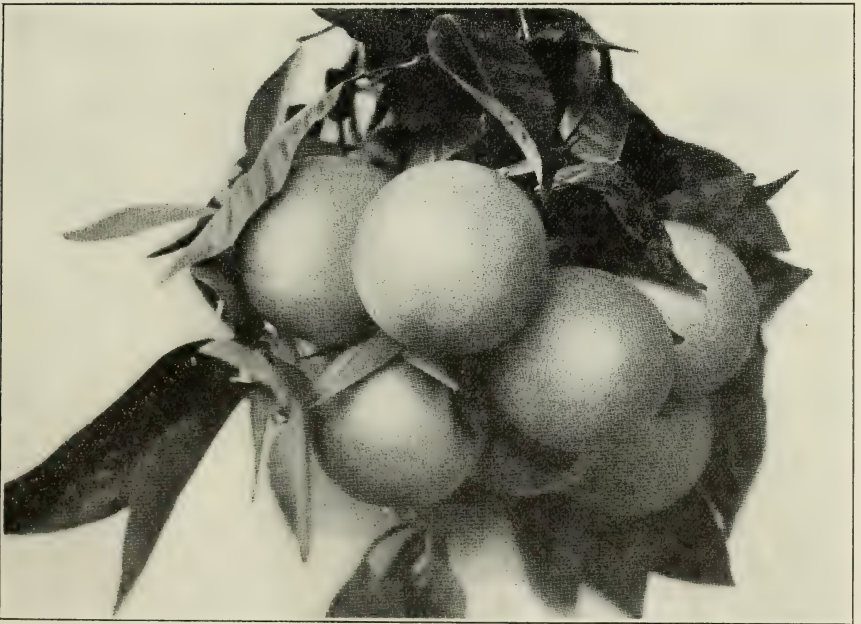
While this variety is not classed as a seedless there are very few seeds to be found in many specimens.

**Villa Franca** Originated in Europe and is regarded by lemon growers of California as the hardiest variety, withstanding lower temperatures than any other. The tree is of somewhat drooping habit, with an abundance of beautiful glossy foliage, and thornless.

The lemons are of medium size, oblong and slightly pointed at the blossom end. The rind is practically free from bitterness and of a beautiful yellow color. The pulp is juicy, contains plenty of acid, and while not classed as seedless very few seeds are to be found.

In lemon growing sections the planting of this variety is recommended.

## POMELO OR GRAPE FRUIT



Grape Fruit

**Marsh's Seedless** While there are other varieties of Pomelos grown, the Marsh's Seedless is so much superior in quality and size, that many Nurserymen have deemed it advisable, on account of the heavy demand for this sort and the small amount of inquiries for others to propagate it only.

The tree is a strong grower and highly valued as an ornamental. The leaves are large and glossy, in fact many people who do not care for the grape fruit to eat plant the tree purely for its ornamental appearance.

The fruit is large, skin very smooth, beautiful light yellow color when ripe

and hangs on the tree well. The pulp is juicy and contains very little rag.

On account of the absence of seeds, the extreme fine flavor, good shipping qualities and productiveness of Marsh's Seedless, we do not hesitate to recommend it to all pomelo or grape-fruit planters.

### Triumph

Is one of the best of the imported Pomelos. While it has some seeds which are not desirable, it also has a good many points in its favor.

The tree is a good grower and a heavy bearer, also bearing very young.

The fruit is of medium size, having a thin smooth skin. The flesh is very juicy, well flavored, and possesses very little rag. It has no bitter taste in the juice or white lining which is noticeable in other varieties.

#### Prices of Pomelo Trees—On Sweet and Sour Roots

	Each	10	100
1 inch and up.....	\$2.50	\$20.00	\$175.00
$\frac{3}{4}$ to 1 inch Caliper.....	2.00	18.00	160.00
$\frac{5}{8}$ to $\frac{3}{4}$ inch Caliper.....	1.75	16.00	150.00
$\frac{1}{2}$ to $\frac{5}{8}$ inch Caliper.....	1.50	14.00	130.00

## LIMES AND TANGERINES

Price ..... Each \$2.50

**Bearss Seedless** Out of the many varieties of limes that have been planted and tested in California, the Bearss Seedless has been found to be the best of all.

The fruit is large, very juicy, with a pronounced acidity and practically seedless. The tree is quite hardy, productive, and like the Eureka lemon blooms and sets fruit all the year.

### Dancy Tangerine

This variety is often called the kid glove orange, as it can be easily peeled without removing or soiling one's gloves. The tree is a vigorous grower and a good producer.

The fruit is small, juicy, rich in flavor, and very aromatic. The skin is quite red in color and very smooth. Ripens from December to February.

## AVOCADOS

### Ahuacate—Alligator Pear

This tree is a tropical fruit first introduced into California as early as 1856. It is found in its native habitat in Mexico, Guatemala and the West Indies. The leading varieties which produce the commercial fruits and selected seedlings which have proven to be of value in size and quality (the quality being an essential point in selection) are budded on seedling roots.

These trees should be planted in warm locations which are not subject to biting frosts, as the trees are tender and new growths are liable to be injured. Fruits vary in size from  $1\frac{1}{2}$  to 6 inches in length and range in color from green to purple. The proper distance to plant these trees in orchard form is 30 feet apart, and the bodies should be covered with tree protectors.

The fruits are used for salads and desserts. When taste is once acquired for avocados, people become very fond of them. The avocado has the highest food value of any known fruit.

Prices of Avocado Trees—Budded Varieties

	Each	10
Boxed.....	2 to 3 ft.	\$3.00 \$25.00

**Fuerte** This is one of the finest of the Mexican varieties yet imported. The tree is a strong upright grower and produces good crops. It is very hardy and recommended for the Northern parts of California.

The fruit is rather broad and oval in shape, averaging about 4 inches in length and about 14 ounces in weight.

The skin is a green color and quite thick. The flesh is rather yellow in color and very rich, testing about 26 per cent fat.

To anyone wishing to plant Avocados, this variety is highly recommended for most all sections of California.

Ripens from October to December.

### Harman

The tree is a very strong grower and an abundant bearer. The fruit of the Harman averages from three to four and a half inches in length and weighs about six to ten ounces. It is of a greenish purple color, having a smooth glossy surface, covered with yellowish dots. The flesh is of a creamy yellow color, of fine quality, buttery and rich in flavor.

The seed is somewhat larger in this variety than in most avocados. This variety is considered one of the best for dessert purposes. Ripens from October to December.

### Northrup

Originated at Santa Ana, California, and resembles the pear in shape. It is of medium size and weighs from eight to ten ounces. The skin is smooth, glossy and purplish black in color. The flesh is a creamy yellow color, smooth, containing very little fibre and of very rich flavor. This variety analyzes about 25 per cent fat.



The tree is hardy and a prolific bearer and has the distinction of being one of the avocados which produces two crops in a season. The first crop ripens from October to November; the second crop, which is smaller than the first, ripens in April and May.

On account of its two crops and its prolonged ripening period we strongly advise the planting of the Northrup in family orchards, as well as for commercial purposes, wherever planters have land sufficiently protected for the growing of avocados.

**Taft** The Taft was originated in Orange county, California, in 1912. It is a pyriform fruit, measuring about five inches in length and weighs from fourteen to twenty-five ounces.

The skin is thick, rather rough and of a deep green color. The flesh is light yellow, in color, and very rich in flavor. The tree is a vigorous grower, very ornamental, and bears the distinction of being one of the hardiest of the avocado family.

The Taft is considered by those growing avocados in a commercial way, to be one of the most profitable varieties on account of its early ripening period and heavy bearing qualities. Ripens June to August.

#### Prices of Avocado Seedling Trees

	Each	10
Balled.....4 to 6 ft.	\$1.50	\$10.00
Balled.....3 to 4 ft.	1.00	8.00

**Seedling** The seedling avocado tree is much the same as seedlings of other fruits. While they produce a fairly good fruit it is always found to be inferior to that of the budded varieties.

The chief reason we find for people buying and planting the seedling is on account of its price, which, of course, is much less than that of the budded varieties.

Where one is desirous of trying the avocado in new sections it may be well to try a seedling, at first, and in case it thrives well no doubt the budded variety will do the same. We, however, have known of seedlings planted which produced very fine fruit and where one is planting an avocado for ornamental purposes the seedling is recommended.

## LOQUATS

The loquat is a handsome, large-leaved evergreen and highly adapted to California conditions. It is a compact grower and forms a well-rounded head. In addition to its making a fine ornamental tree, the fine budded varieties produce fruits as large as the medium-sized plum, the same being oblong in shape, bright yellow color, sub-acid, with an agreeable flavor. They are prized for making jellies. The following are the best of the budded varieties:

#### Prices of Loquat Trees—(New) Budded

	Each
Balled 3 to 4 ft.....	\$3.00
Balled 2 to 3 ft.....	2.00

**Advance** Advance is one of the best loquats. The fruit is of a yellow color, shaped a good deal like that of a pear, grows from two to three inches in length often having from ten to twelve loquats in a cluster.

The fruit is very sweet when fully ripe and has a delicious sub-acid flavor. Highly recommended for the family orchard and for commercial purposes. Ripens during April and May.

**Premier** Is valuable for market purposes on account of its early ripening. The fruit is very large, of a salmon color and somewhat oval in shape, possessing a very fine flavor.

This is one of the earliest fruits on the market, consequently bids fair to become one of the most popular in sections where it can be grown. Ripens in March and April.

#### Prices of Loquat Seedling Trees

	Each	10
Balled.....4 to 6 ft.	\$2.00	\$15.00
Balled.....3 to 4 ft.	1.50	12.50
Pot-grown.....2 to 3 ft.	1.00	7.50

**Seedling** The tree of the seedling loquat is very ornamental and also productive. While not as large as the budded varieties is very palatable.

We recommend the planting of seedling loquats for ornamental as well as for dessert purposes.

## PERSIMMONS

The Japanese types of persimmons furnish us the commercial varieties for planting in California. Planters are becoming interested in planting orchards of these fruits, finding a ready market in the East. The persimmon, being an

ornamental, deciduous tree, is highly suited for specimen planting, for aligning avenues and borders as well as being planted in orchard form.

There is considerable variation in the shape and character of the fruits. Some of them resemble tomatoes in form while others are globe-shaped, also elongated globes. The dark-meated varieties can be eaten while still hard, while the yellow-fleshed sorts cannot be eaten until quite soft or astringency removed by the process of inoculation with alcohol, or by being placed in a Japanese saki (rice beer) tub from which the saki has been recently removed.

The persimmon prefers a light, loose, loam soil, that is well drained yet retentive of moisture. The trees should be set 25 feet apart in orchard form. When the tree is planted cut it back to 18 inches from the top of the ground and protect the body from sunburn by using at least a 14-inch protector. The first winter pruning should consist of forming the head of the tree. Select three to four branches for the framework, having them distributed around the body, and cut back one-half. The second season leave one upright limb on each of the framework branches and cut it back one-half. The future pruning should merely consist of keeping the shape of the tree, removing any overlapping branches, and if necessary, to shorten in any leaders in the top which make an excessive growth and have a tendency to shoot up too far.

The fruits suitable for shipment are picked when quite hard and are wrapped individually and packed in crates or boxes. By the time they reach the Eastern market they are softening and are usually ready to place in the consumer's hands.

The American types of fruits are small and of very little commercial value and are sold principally for ornamental planting.

#### Prices of Persimmon Trees—Japanese Home Grown

	Each	10
4 to 5 ft.....	\$2.00	\$15.00
3 to 4 ft.....	1.50	12.50
2 to 3 ft.....	1.25	10.00

The Dai Dai Maru is considered one of the best varieties of the Japanese type of persimmons. While not entirely free from seeds, one might examine a good many specimens without discovering one.

The fruit is of a large round shape, flat at the base and light yellow in color. Flesh is firm, juicy and very delicious. Owing to its banana-like flavor, it is highly prized in the family orchard collection. Ripens in September.



#### Japanese Persimmon

**Hachiya** This tree is a very vigorous grower, of upright habit and very shapely. The fruit is pronounced by growers of persimmons as the largest and finest specimen of all persimmons, often attaining a length of



three and one-half inches and a diameter of three and three-quarter inches, and of extremely high quality.

It is of oblong shape, has rather a short point, and a skin of bright dark red, covered with dark blotches. Owing to its size and showy appearance it certainly is worthy of extensive planting.

On account of its beauty and early ripening it is one of the very best for early market use, and fruit basket decoration. Ripens October.

**Hyakume** The fruit of the Hyakume can be used for eating purposes while still hard, while most other varieties are found to lack flavor and are rather astringent before fully ripe, this, of course, tends to make it one of the very best for shipping and market purposes.

The skin is of a light buff color, having rings and veins clearly showing at the apex. The flesh is of a dark brown color, very meaty, crisp and sweet. Owing to its early ripening period and beautiful appearance, we strongly recommend planting it in a commercial way, as well as in every family orchard. Ripens early in October.

**Mammoth Goshō** The Mammoth Goshō persimmon is an upright grower and very productive. The fruit is large, round, and inclined to be somewhat flattened. The flesh is of a red color and very delicious. While it is not so extensively planted as some others it is very profitable for market purposes. Ripens September.

**Tane Nashi** Tane Nashi is a strong, vigorous grower and a very prolific bearer. Owing to the large size of the fruit and the fact of it seldom containing any seeds it is a favorite among home orchard planters.

The skin is of a light yellow color changing to bright red when fully ripe. The flesh is of a beautiful yellow color of very fine quality.

Owing to its early ripening it is a leader for market purposes, and is also highly recommended for drying. Fruit ripens middle of September.

**Yemon** The Yemon differs in shape from any other persimmon, being what is termed tomato shape. The skin is of light yellow changing to a dull red somewhat mottled with yellow when matured. Flesh is of a deep dull red. While it is not entirely seedless many specimens contain very few seeds. It is highly valued for market purposes and should be left until fully ripe before eating. Ripens November.

## POMEGRANATES

Pomegranates are grown as shrubs and trees—the first form being the one principally used, as the tree will bear light crops of fruit if pruned too heavily.

The beauty of the tree with its brilliant, scarlet flowers and showy yellow and red fruits has caused it to be planted in gardens and lawns, as well as used for hedge purposes or planted in orchard form.

The trees do best where planted in rich, moist soils and they also thrive well on soils that are strongly impregnated with alkali. When planted in orchard form they should be set fifteen feet apart.

The fruit can be used for making jellies and acid drinks as well as eaten fresh, and on account of their keeping qualities and showy colors they are often used for table and sideboard decorations.

### Prices of Wonderful Pomegranate Trees

	Each	10	100
3 to 4 ft.....	\$ .70	\$6.00	\$50.00
2 to 3 ft.....	.60	5.00	45.00

**Wonderful** There is probably no other profitable fruit that enjoys the distinction of being so widely planted in California for ornamental purposes as the Pomegranate.

We know sections where this variety has been planted between young orange trees (so that some revenue might be derived from the soil while waiting for the orange trees to come in bearing) and produced a revenue of \$800.00 per acre.

Most of this fruit is shipped east where it finds a strong and ready market. The fruit is of yellow color overspread with red and often blushed with deep scarlet. The pulp is a rich garnet color, with an abundance of juice, of a dark color and a very pleasing flavor, slightly sub-acid. Ripens in October.

## GRAPES

Without contradiction it can be stated that California leads all other states of the union in the production of grapes for table use, shipping and the manufacture of wine and raisins; in fact, we have the largest acreage of raisin grapes in the world which is located in ten counties of the state, principally in the San Joaquin Valley. In 1917 we produced over 264,000,000 pounds of raisins alone, and that crop was practically sold before the drying period of the following season.

Owing to our favorable climatic conditions, our principal varieties are of the European type, which produces the highest quality fruit that can be grown, and many of these find a ready market in the Eastern States where they produce only the American (the slip skin type).

The grape luxuriates in rich loam soils but can be planted on heavy and sandy soils, some varieties doing even better on these than where the ground is a rich deposit.

The usual distance for planting grapes is 8x10 feet apart, requiring 544 vines to the acre. When the vines are to be staked and trellised 6x12 feet apart is preferred and 605 vines planted on an acre. When the latter distance is used the vines are staked the second year and the third year heavy posts are set at the ends of the rows and two wires are stretched along the row and fastened at each stake. The wire used is No. 12 gauge and spread 18 inches apart, the bottom wire to be 30 inches above the ground and the second wire 18 inches above the first wire.

When the wires are stretched, cross cultivation is discontinued and a minimum expense is added, it being necessary to hoe out the center of the rows, but the increased crop more than pays this expense.

The pruning of the vines is an exhaustive subject and there are so many differences of opinion as to the proper method to use that we will only give a general idea of how this work should be accomplished.

The common practice in pruning the Muscat is to cut it back to 12 inches above the top of the ground which is to form the head of the vine from which, in later years, the spurs for the future canes of the vines are grown.

The Malaga is pruned to a height of two feet and spurs are distributed on the same from which the lateral bearing canes are developed. A four-foot stake should be used, tying the upright cane to it, which in later years will become strong enough to support itself and the stake removed.

The Emperor, Cornichon, Flame Tokay, Thompson Seedless, Sultana, and other varieties of long cane table and wine grapes are pruned to a height of not less than 36 inches, which allows spurs to be formed along the body, which in after years will produce the fruit-bearing canes. As previously stated, many vineyardists are trellising their vineyards especially the Thompson Seedless and Sultana—increasing the production at least one-third. The care and cultivation given a young vineyard well repays the added expense, in growth of vine and producing earlier and larger crops.

Should any of our customers desire added information to that above given, we will consider it a pleasure in giving them the instructions desired.

## RECENT INTRODUCTIONS

	Each	10	100
Price .....	\$.30	\$2.50	\$10.00

**Sultanina Rosea** Resembles the Thompson in nearly every particular, with the exception of color. The berries are oval in shape, medium in size, almost identical with that of the Thompson. The color varies from a violet rose to a coppery red.

This variety makes a fine raisin and will no doubt be a favorite variety for shipping purposes on account of its color.

**Zante Currant** The Zante currant (sometimes known as the Greek currant of Commerce) has not been planted in California on a large scale. It is now becoming popular and large acreages will be set out as fast as the vines can be procured.

The vine is a strong grower and produces an abundance of bunches, which are rather small in size. It has not been tried in many grape sections, but has proven very satisfactory where planted. On account of its small size and early ripening it requires very little time for drying. Ripens in August.

## FOREIGN TABLE AND SHIPPING GRAPES

	Each	10	100
Price .....	\$.30	\$2.00	\$5.00

**Black Cornichon** Black Cornichon is one of the many fine table grapes produced in California. It is not as extensively planted as the Tokay, Emperor or Malaga, however, in some sections it is a favorite and is a very profitable variety.

The vine is a strong grower and in sections, to which it is adapted, is a good producer. The berries are of a very dark purple color when ripe, of a long olive shape, covered with a fine bloom. The flesh is firm and of good flavor, consequently, is a ready seller when placed on the market.

The Black Cornichon is particularly adapted for planting in the Sacramento valley. Ripens in October.



While not so extensively grown as some others it is a **Black Hamburg** great favorite in the markets and is also a very profitable variety; the vine being a strong grower and a good bearer.

The bunches are very large and heavily shouldered, berries are large, sweet and juicy, and a coal black color when fully ripe.

This is certainly a very attractive grape and should be planted more extensively. Grows well in all sections of California. Ripens late in September.

**Dattier de Beyrouth** This variety is also called Rosaki. It was introduced from Europe and is considered a first class shipping grape in sections suitable for its growing.

It is also suitable for making raisins as it resembles in flavor and appearance the Spanish raisin more than any other variety grown in California.

There are some very fine vineyards of this variety to be found in the northern part of the San Joaquin valley where the vines grow exceptionally well, and the grapes are of high quality. The bunches are slightly shouldered, berries large, oval in form and of a beautiful golden amber color, overspread with a whitish bloom when fully ripe. The meat is very juicy and sweet.

Its keeping qualities are of the best, consequently, we feel that we can highly recommend it for planting especially in the northern part of the San Joaquin valley. Ripens in August.

**Emperor** This is without doubt the best late shipping grape grown in the San Joaquin valley. Throughout other sections of California, however, it is not much favored as its bearing qualities are not of the best, but throughout the San Joaquin and chiefly in the foothill sections, where it is practically free from early frosts and colors up well, it has no equal for late shipping.

We know of many Emperor vineyards which have produced from \$500.00 to \$1000.00 per acre. For table and other decorating purposes, as well as for eating, it is considered superior to any other variety of its ripening period. The vine is a strong grower and a heavy producer, bunches are large and long in shape. Berries are large, thick skinned, oblong and a deep rose to purple in color covered with a light bloom, in fact every feature of this grape strengthens its shipping qualities.

In the last few seasons many shippers have been packing Emperors in red-wood sawdust and placing them in cold storage for late market purposes which on account of there being no competition, when they are placed on the market, bring extraordinary prices. Ripens in October.

**Flame Tokay** The Flame Tokay is another of the profitable California shipping grapes and while it is planted in all sections of the state, it is found to be particularly productive in the Sacramento valley and foothill sections and in some southern sections.

The vine is a strong grower and possesses a beautiful foliage of a dark green color tinged with brown. The bunches are large, often weighing eight and nine pounds. Berries are large, oblong, being of a red color covered with a lilac colored bloom. Flesh is firm and of fine flavor.

We do not hesitate to recommend this variety, as one of the best, for planting in the sections above mentioned. Ripens in September.

**Malaga** Is the best white shipping grape and is extensively grown throughout the shipping grape districts. It has been grown in nearly all sections where other grapes are grown with success. Its fine keeping qualities as well as its extreme productiveness classes it among the best. Aside from its shipping qualities it is often used (especially in the San Joaquin Valley) for the making of raisins, both loose and layers and while it does not have the flavor of the other raisin grapes it is of fairly good quality.

The vine is a strong grower, has plenty of foliage to protect the grapes from sunburn, and is long lived. The bunches are large, often weighing as much as ten pounds. The berries are large, oval in shape, having a yellowish green skin which is quite thick. The flesh is firm and of excellent quality.

We do not hesitate to recommend the Malaga for commercial planting. It ripens in most sections about the middle of August. However, its time of ripening varies considerably, owing to the sections in which planted. While the Malaga can be profitably grown in all sections of California it is particularly adapted to the valley and foothill sections. Ripens in August.

NEW SHIPPING VARIETIES

	Each	10	100
Price .....	\$ .35	\$3.00	\$7.50

**Almeria** One of the latest and best keepers of the table grape family. The vine is a strong grower and produces good crops.

The bunches are quite large. The berries are white in color, resembling considerably the Malaga.

This variety is being grown quite extensively by some of the leading growers of table and shipping grapes who pack them in redwood sawdust and keep them indefinitely by placing them in cold storage.

### Maraville de Malaga

Also known as the Red Malaga is without a doubt one of the finest varieties for table and shipping. It has remarkable coloring of deep red intermingled with blue as it reaches maturity.

This variety is also used as a pollinizer for some other varieties of table grapes.

The berries resemble the ordinary Malaga as to shape but are much finer and more delicious in flavor. Bunches are large, long and loose. Excellent for shipping and table uses.

## FOREIGN SPECIAL VARIETIES

	Each	10	100
Price .....	\$ .30	\$2.50	\$10.00

### Black Morocco

A beautiful black colored grape when fully ripe and is highly recommended for market and shipping purposes on account of its fine appearance, good keeping qualities, and lateness of ripening.

The bunches are of medium size rather closely set with large oval shaped berries of black color. The flesh is firm, juicy and of excellent flavor.

The attractive appearance of the Black Morocco causes it to sell on sight when placed in fruit stands either in the east or west. Ripens last of October.

### Chasselas de Fontainbleau

Is widely known throughout the United States as the "White Sweetwater." It is largely planted for home purposes and for local market uses and is one of the best of the early varieties.

The bunches are large, berries of medium size, greenish in color, but turning to a beautiful yellow when fully ripe. The skin is thin, flesh tender, juicy and highly flavored.

On account of its early ripening and fine flavor this variety is highly recommended for family use. Ripens late in July.

### Gros Colman

The Gros Colman is one of the largest grapes known. It has been largely cultivated in England, Belgium and France, where it is said to grow extremely large and reaches the highest stage of perfection. Aside from its unusual size (which is often classed with that of the Damson plum) it is of a very dark almost black color, covered with a light blue bloom, which makes it exceedingly attractive.

The bunches are large, rather loose and quite long. The flesh is firm and has a very pleasant vinous flavor. Although Gros Colman has not been planted very extensively in California, in the Sacramento and San Joaquin valleys it is well recommended for its size, keeping qualities, and attractive appearance. It is recommended by many table grape growers as worthy of extensive cultivation. Ripens in November.

### Rose of Peru

The Rose of Peru is known also as the Black Prince. The vine is a strong grower, producing large shouldered bunches. The berries are large, round and black with a firm and crackling flesh of fine quality. It is not adapted for a long distance shipping grape but is highly suited for the home collection. Ripens about October 1st.

## WINE VARIETIES

	Each	10	100
Price .....	\$ .30	\$2.00	\$5.00

### Alicante Bouschet

One of the best varieties for the making of red wine. The bunches are large shouldered closely set with medium sized berries of black color.

The vine is a strong grower and a heavy producer.

### Burger

Another good variety of German origin highly prized for the making of white wine. The vine is a very healthy strong grower and produces heavy crops.

### Carignan

Another favorite for the making of red wine. The vine is a strong grower and an abundant producer.

Berries are slightly oblong in shape; black in color; very sweet and juicy.

### Feher Zagos

This is one of the most valuable of the white wine varieties, and while used chiefly for the making of that product, also makes a fairly good raisin when dried.

The vine is one of the most vigorous growers and heavy producers of all the vines grown in California. It also bears the reputation of thriving well



in alkali soils where other vines fail and is often grown to fill in bad spots of land where other vines have died, being grafted over after a period of two or three years to conform with the rest of the vineyard. The Feher Zagos is especially adapted for interior valley planting. Its time of ripening is September.

**Grenache** This is a very valuable variety for the making of wines and is very much in demand by all wineries, as it makes the best grade of claret wine.

The vine is a strong grower and a heavy producer. The bunches are long and cylindrical, the berries are black and very juicy.

This variety is recommended for planting in the interior valleys of California. Ripens in September.

**Mission** Is said by good authority to be the oldest grape grown in California. While its chief use is for the making of Claret it is often used as a table variety.

The bunches are quite large, berries of medium size, round in shape, and a beautiful purple black in color, possessing a sweet delicious flavor. Ripens in September.

**Zinfandel** This variety has been more extensively planted throughout the wine sections of the state than any other. The vine is strong, healthy and vigorous, producing good crops.

The bunches are large and compact; berries round in shape and dark purple in color. One of the best for making Claret.

## RAISIN VARIETIES

	Each	10	100
Price .....	\$ .30	\$2.00	\$5.00

**Sultana** Is one of the best seedless raisins grown and while it has not been so extensively planted as the Muscat or Thompsons many growers are finding advantages in the growing of this variety.

The Sultana is particularly adapted to light sandy soils, where it often produces as much as four tons to the acre; in sections throughout the northern part of the state it has proven to be much more resistant to mildew than any other variety.

One of the strongest features, in favor of the Sultana, is the fact that it is much favored by bakeries, confectioners and housewives on account of its tart flavor which takes or fills the place which was once occupied by the imported dried currant. The bunches are large and compact, round and greenish in color but should be left until quite yellow before picking for drying. Ripens in August.

**Thompson Seedless** Mr. W. Thompson, Sr., of Yuba City, Cal., procured the cuttings of this variety in the year 1878, from Elwanger & Barry, a New York State Nursery Company, who stated that the cuttings were secured by them from Constantinople, Turkey. In the foothill sections and early ripenings sections it has been found exceedingly valuable for early shipment. The bunches are long and compact and withstand shipping well.

The berries are oval in shape, greenish yellow in color, turning to bright yellow when fully ripe. They contain no seeds whatever and their keeping qualities are of the best.

The Thompson can, no doubt, be grown over a larger variety of soils than any other grape, having given satisfactory results in heavy soils, sandy soils and also soils where the alkali is too strong for any other raisin grapes.

As a raisin it is easily picked, dries quickly, and contains a large percentage of sugar. The bunches sometimes grow so large it is found necessary to cut them in several places, in order to aid the process of drying.

On account of the large plantings and the enormous profits received through the plantings of this variety we feel we cannot recommend it too highly. Ripens middle of August.

**Muscat** The Muscat is the oldest, best and most widely known of all the raisin grapes. There are other varieties very popular in California, but none possess the flavor and fine quality contained in the Muscat.

It is an excellent grape to eat in the green state and brings good money when sold on fruit stands. On account of its thin skin, however, it is not classed as a good shipping grape. In the making of layers and packing of fancy boxes for the trade the Muscat is in a class by itself, there being no other variety possessing the fine flavor, aroma and good packing qualities of this variety. The demand for layer raisins has much exceeded the supply in late years. While we have seedless varieties that are very profitable and easily handled by confectioners and housewives for cooking, there has always been such a demand for the Muscat on account of its flavor, that it was found necessary during the last few years to remove the seeds, which is all done by machinery, and pack them in one pound packages for the retail trade.

This seeding system has caused an increase in demand until we believe we are justified in saying that vineyardists cannot do better, if their land is suitable, than to plant a Muscat vineyard.

It must be remembered by intending planters there are different varieties or strains of Muscat vines some being much heavier bearers than others. In the growing of our rootings we use great caution so as to have only good producing and high quality raisins for our customers when the vines commence bearing. Ripens about September 1st.

## AMERICAN VARIETIES

Price	Each	10
.....	\$ .40	\$3.00



**Catawba**

**Concord**

**Catawba** While this variety is not extensively grown for commercial purposes in California, it is one of the best and most largely grown throughout Ohio, Kentucky and many Eastern states. The berries are large of a coppery red color, turning to purplish when fully ripe. The bunches are large and present a very fine appearance. The vine is strong, healthy and a good producer. The foliage is of heart shape and beautiful.

We highly recommend the Catawba to lovers of the American varieties. Ripens the last of September.

**Concord** Is no doubt more widely known throughout the United States for home planting than any other. It can be found throughout the Eastern states, in nearly every garden or family orchard.

In addition to being a fine dessert grape the Concord is particularly adapted for the making of grape juice. The berries are large round and of a glossy black color, covered with a blue bloom. It is claimed by Eastern grape growers to be one of the best of the American varieties for shipping purposes.

The vine is a strong grower and can nearly always be depended on to produce a crop most any place in the United States where grapes can be grown. Ripens in August.

**Isabella** One of the Eastern varieties that is very much planted in California and is an old standard throughout the East.

The vine is a strong grower and produces good crops. The bunches are large and long in shape. Berries are rather oval in shape, black in color and have a very pleasant musky flavor.

Isabella is recommended not only for the family orchard or garden but also for market purposes. Ripens in September.

**Niagara** The Niagara grape bears the distinction of being the best white variety of the American type of grapes. The bunches are of medium size and compact. The fruit is medium and uniform in size—skin thin,



greenish white changing to pale yellow when fully ripe. The flesh is firm, juicy and highly aromatic, a splendid variety for home use.

Originated by J. P. Pierce of Santa Clara, and said by many to be superior to the Isabella. It is highly valued for its ornamental appearance, as well as for its fine eating qualities.

The foliage is of exceptional size and presents a fine solid appearance. The vine is a strong grower and a heavy prdoucer, its bunches and berries being of exceptional size, flavor and aroma, and of a glossy black when fully ripe.

We do not hesitate to recommend this variety for home use and for market purposes, as its extreme size and beautiful appearance makes it a very attractive and ready seller in the markets. Ripens late September.

THE BERRY FRUITS

The berries or small bush fruit are fully described in the following lists. When given the proper care and cultivation and 'planted in good, rich soils they produce abundant crops of fruit and should be planted in every home garden where climatic conditions are favorable for their development. Gooseberries and the red and white varieties of currants also raspberries do not thrive well in the hot interior valleys; with this exception we do not hesitate in recommending all varieties for general planting.

**Cory's Thornless Blackberry** This is a new Blackberry of mammoth size and will undoubtedly become the most popular blackberry of any yet known.

Unlike other varieties this vine is entirely free from thorns which is a very attractive feature when harvesting the fruit.

It is a strong rapid grower, an early and a heavy bearer. Berries are of extra large size and a very fine flavor, having a very small core, but few seeds and an abundance of sugar. This variety is especially valuable for the making of jams and preserves but is very valuable for all cooking and market purposes.

It is said by expert 'berry planters that Cory's Thornless will grow' and thrive in most any soil or climate and when properly cultivated, individual vines have been known to produce as many as 15 three-quarter-pound baskets at one picking. Many of the berries measure as much as three inches in length.

Planters can readily see that the rapid growing and heavy bearing qualities of this variety coupled with the small expense of picking, compared with other varieties, make it a decided favorite and a great leader for Berry planters.

	Each	10	100
Prices of Cory's Thornless .....	\$ .30	\$2.50	\$20.00

**Himalaya Berry** One of the most remarkable growers of all berry plants. Sometimes growing as much as thirty to forty feet in a single season. To obtain best results it must be trained on a trellis.

The vine is a heavy bearer, having been known to produce as much as 400 crates per acre. The fruit is large, black, round in shape, firm, juicy and has very small seeds.

It is of excellent quality for shipping, as well as for all home uses, and is one of the best berries on the market.

It was imported from the Himalaya mountains by Luther Burbank, of Santa Rosa, California, who deserves great credit for its introduction.

Ripens from June 15th until late fall.

	Each	10	100
Tips .....	\$ .25	\$2.00	\$15.00

**Lawton Blackberry** This is one of the standard berries among growers as it comes at a time when most other blackberries are gone.

The berries are large and contain a good percentage of sugar.

The vine is a strong grower and a good producer.

To those desiring a late blackberry for home uses the Lawton will be found very satisfactory.

	Each	10	100
Price .....	\$ .25	\$2.00	\$15.00

**Loganberry** A hybrid between the raspberry and wild blackberry and was originated at Santa Cruz, California, by Judge J. H. Logan, in the year 1881. In 1893 it was introduced to the public, through the University of California, and has since become very popular among berry growers and users in general.

The vine is an exceedingly strong grower and has a fine foliage which affords plenty of protection to the berries. The fruit is very large and attractive, sometimes being an inch and a quarter in length.

It resembles very much in shape that of a blackberry and has the dark red color of the raspberry. Its flavor, however, is a combination of both; when

used in making preserves, the raspberry flavor predominates.

It is highly regarded for the making of jelly, jam, pies, or for eating as a dessert. As a market variety it has no equal, the demand always exceeding the supply. Ripens in May.

	Each	10	100
Tips .....	\$ .25	\$2.00	\$15.00

## Mammoth Blackberry

The growing habits of this variety differ greatly from those of any other being a decided trailer in habit and making a growth of as much as twenty feet in a single season.

The canes are very large, covered with thick foliage of a deep green color. The vine is very productive and ripens exceedingly early being three weeks earlier than other varieties.

The fruit is large in size, often measuring 2½ inches in length, seeds are small, soft and abundant. It possesses a fine flavor and is said by many berry growers to be a cross between the wild blackberry and the Crandall's Early. We highly recommend the planting of this variety. Ripens in June.

	Each	10	100
Tips .....	\$ .25	\$2.00	\$15.00

## RASPBERRIES

	Each	10	100
Price .....	\$ .25	\$2.00	\$15.00

**Cuthbert** This is the leading red raspberry in California. It is a strong and hardy plant, free grower and an abundant bearer.

The foliage is large and abundant which affords ample protection to the fruit. The berries are large, a beautiful deep crimson in color, possessing a most pleasing flavor.

Unlike many other berries the Cuthbert is very easily picked and holds up well in shipping, consequently is highly prized not only for home uses but as a commercial and shipping variety.

**Gregg** The Gregg is classed as a leader among black raspberries and is most highly valued for home uses for which it is recommended. The berries are large, a glossy black in color and possess a fine flavor. The vine is a strong grower and very productive.

While this variety does not command the price of the red raspberries in the markets it certainly is a valuable addition to the home garden.

## DEWBERRIES

	Each	10	100
Price .....	\$ .25	\$2.00	\$15.00

### Gardena Dewberry

The Gardena dewberry is known as the trailing blackberry on account of its decided trailing habit. It is a strong grower and an abundant bearer and should be grown on trellis to obtain best results. The berries are large and a glossy black in color, very sweet and delicious. It is largely planted in Central and Southern California and is found very profitable in all berry sections.

Its name originated with Mr. W. M. Gray of Gardena, Los Angeles County, California, who was one of the first to successfully grow this variety. Ripens about the middle of May and lasts until July.

### Lucretia Dewberry

The bush resembles very much that of the Gardena being of trailing habit, strong grower and abundant bearer.

The berries are large, often being one and a half inches long and one inch in diameter, glossy black in color, sweet and of excellent flavor. It is most highly recommended for home and market use. Ripens about June 1st.

## GOOSEBERRIES

	Each	10	100
Price .....	\$ .40	\$3.50	\$30.00

### Oregon Champion

So called as it is indeed the champion of gooseberries. It was originated in Oregon and has but few thorns, which certainly is an attractive feature to those growing gooseberries for market purposes.

It is a vigorous grower and produces berries of large size, brownish red in color when ripe and of fine flavor. We do not hesitate to recommend this variety for planting in all gooseberry sections.



## CURRENTS

	Each	10	100
1 year—Except Crandall's Black.....	\$ .40	\$3.50	\$30.00

**Cherry** The Cherry currant is an erect, stout, vigorous grower and a heavy producer. Like most other varieties of currants it does not do well in the warm valley climates but is very productive and highly recommended for the coast and cooler climates.

The berry is large, of a deep red color, rather acid in flavor, and is a good keeper. It is highly recommended for home use for the making of red currant jelly and also for the making of pies. Aside from being valuable in the family garden it is largely grown for market purposes.

**Fays Prolific** Originated in Chautauqua County, New York, and is supposed to be a cross between the Cherry and the Victoria.

The berries are of large size and a fine flavor. The bush grows to a large size, has plenty of foliage and is an exceedingly heavy producer.

It is said by growers of currants that the Fay's Prolific has been known to yield three times the crop of other red varieties when planted side by side. We certainly do not hesitate to recommend this variety.

**White Grape** The bush of this variety has a tendency to grow rather low and is of decidedly spreading habit. The foliage is of a beautiful dark green color and affords ample protection to the currants.

It is a strong, healthy bush and is very productive. The berries are unlike any of the other varieties we have described, being of a yellowish white in color, sweet and of a mild acid flavor. Highly valued for table and home use.

	Each	10	100
1 year—Crandall's Black.....	\$ .50	\$4.50	\$40.00

**Crandall's Black** While most currants and gooseberries do well in the cooler climates and coast regions, there are scarcely any varieties to be found that are adapted to the warmer and valley sections. Crandall's Black, however, has been planted quite extensively throughout the San Joaquin Valley and other hot regions of California and has been found to be a vigorous grower and a good producer.

It is said to be a seedling of the wild currant. The berries are large, often being from one-half to three-quarters of an inch in diameter. The fruit is of good quality and fine flavor. We know of plantings of this variety in the very warmest districts that are producing well and bring the highest market prices. To those in warm regions who desire to plant currants for their own use we do not hesitate to strongly recommend the planting of this variety.

## STRAWBERRIES

	10	100	1000
General Collection—Except Banner.....	\$ .30	\$2.50	\$15.00

**Brandywine** The Brandywine strawberry is one of the most valuable of the medium to late varieties and the plant is very hardy and productive. It is highly regarded for home use and as a market variety. The flesh is firm, berries of large size, roundish and somewhat conical in shape, a deep blood red in color, having a bright red flesh and a small yellow seed. It has a very high flavor and somewhat sub-acid.

It is regarded as one of the best for commercial purposes through the Los Angeles district and southern parts of California.

**Jessie** The plants are very vigorous and productive and extensively planted throughout all berry sections of California.

The berries are of large size, have a rich juicy flavor of the highest quality, and highly valued for shipping purposes as well as for all home uses.

It is recommended by the leading berry growers as one of the best of the early varieties and is known to thrive exceedingly well in the warmer sections of the state.

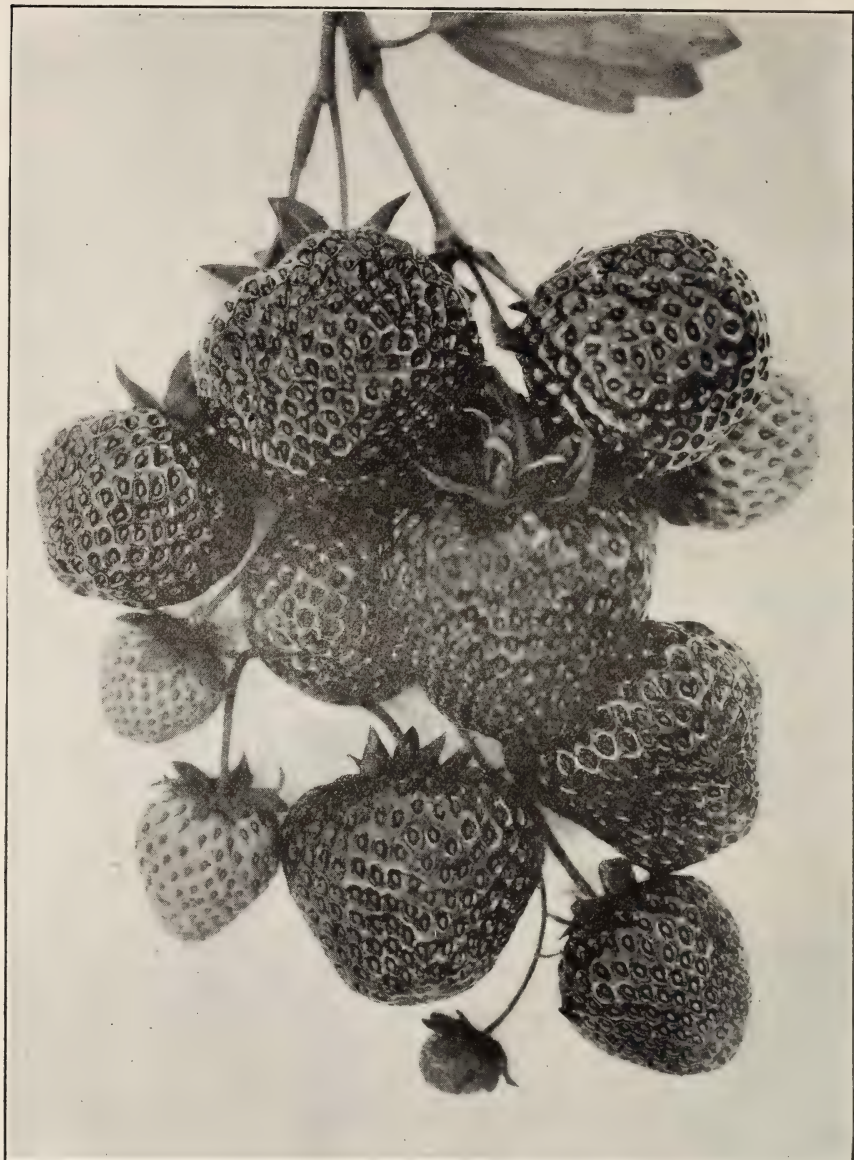
**Marshall** The Marshall is a very handsome dark red strawberry and the seeds are quite prominent. The flesh is of a bright red color, and attractive, especially when used for the making of jams or preserves. In fact it is classed among berry growers as a fancy berry and demands the highest market price, being sold mostly for fancy trade. It also enjoys the reputation of being a good keeper, especially when held in storage.

The berries are large and of the finest quality and hold up well during its whole ripening season.

The plants are healthy, strong growers and productive. This variety enjoys great popularity throughout California and the Pacific Coast.

	10	100	1000
Banner Plants .....	\$ .60	\$5.00	\$25.00

**Banner or New Oregon** Recommended among berry growers, who are familiar with it, as being one of the earliest,



**Banner**

most uniform and heaviest yielding varieties of all the strawberries yet originated. The berry is of large size, brilliant deep rich red in color. When fully ripe, its glossy appearance would lead one to believe that it might be varnished. The flesh is a blood red in color and possesses a very distinct flavor very much similar to that of the wild berry.

It remains in perfect condition on the vines from two to four days after ripening; besides being excellent for canning purposes and the making of preserves it has practically no equal for handling and shipping purposes. The plant is a strong grower affording plenty of protection for the berries and is one of the very earliest, being often found in the market in the early part of May, and is a favorite throughout the strawberry season.

Do not forget the good points in favor of this variety—large, uniform size—deep rich red color throughout—one of the earliest and heaviest bearers and the best shipper.



ASPARAGUS

	10	100	1000
Price .....	\$ .75	\$3.00	\$20.00

**Conover's Colossal** While there are many varieties of asparagus planted and grown, this is regarded by growers and shippers in general to be much superior to any of the older sorts.

It is of large size, tender, and of fine quality. Aside from being valuable for market and shipping purposes, we highly recommend it for home use.

We believe every home where sufficient ground can be found there should be an asparagus bed, as this is one of the most delicate and delicious vegetables, when properly grown and picked, that is to be had.

**Palmetto** This is recognized among asparagus growers as a leader. It is of large size, very tender and a regular grower. On account of its earliness it is highly valued for market purposes.

Palmetto is considered a great favorite in the family garden coming as it does at a time when vegetables are scarce.

We do not hesitate to recommend this variety as its fine qualities, as well as its heavy producing records, are seldom equalled by any other.

RHUBARB

**Myatt's Linnaeus Rhubarb** One of the best of the old varieties which has been so extensively planted. While other sorts, of late years, have been introduced Myatt's Linnaeus is still a leader.

Its tenderness and fine flavor is superior to any of the other varieties. Its earliness is also in its favor, as it comes at a time when fruits are scarce, and is very acceptable to housewives in general for the making of sauce, pies, etc.

We recommend it as one of the best and earliest and would suggest that it be planted in every family garden.

	Each	10	100
Price .....	\$ .30	\$2.00	\$15.00

**Niles' Giant** This variety was originated at Niles, California, and has succeeded in securing first awards at all exhibits where shown.

The stalks grow fully twice as large as any of the common varieties and on account of their rapid growth are exceedingly crisp and juicy.

Niles' Giant is considered a real wonder in the Rhubarb family and is excellent for home uses and market purposes.

	Each	10	100
Price .....	\$ .75	\$6.00	\$50.00

**Burbank's Crimson Winter Rhubarb** Is one of the valuable introductions of Luther Burbank, of Santa Rosa, California. It is of large size, stocks often averaging twelve to eighteen inches in length and one inch in diameter. It is a beautiful crimson green in color, and of the very finest quality.

Where planted throughout California and kept moist it will produce abundantly at any season of the year. It has been known to grow vigorously in October and produce all through the winter season. In colder regions, however, such as Oregon, it does not produce in the winter, but the first opening of spring finds the shoots coming through the ground.

We highly recommend this variety for growing both in the family garden and for commercial purposes.

	Each	10	100
Price .....	\$ .40	\$3.00	\$20.00

HOP ROOTS

The Hop Vine is found to be very desirable on account of its rapid growth and ornamental appearance for covering pergolas, fences, and porches wherever a quick dense shade is desired.

	Each
Price .....	\$ .25



Ornamental Plantings Make the Home Beautiful

## Ornamental Department

We are offering herein a few of the best ornamental deciduous and ever-green shade trees and flowering shrubs, varieties that are well adapted for general planting throughout the Pacific Coast. We call particular attention to the fine varieties which we are growing, and will state that all of these trees are thrifty and stocky—highly suitable for park, school grounds, avenues and highways, as well as for single specimen planting.

Should any of our customers desire to engage the services of a landscape architect, to submit drawings and plans for ornamentation of parks, highways or home grounds, we are in touch with a competent man who could take care of this branch of the business and make suggestions which would be of great value to any one proposing to make a planting this season. These plans can be secured at reasonable figures for such work, and we will take pleasure in assisting our customers in the selection of such plants as they may require for their proposed planting.

The pruning of ornamental trees and plants at time of transplanting is just as important as the pruning of fruit trees. When the tree is taken up from the nursery (especially very large ornamental trees) at least one-half of the roots are cut off, so that top pruning is just as important as root pruning. Deciduous trees that are 6 ft. high should be cut back to 4 ft.; 8-ft. trees should be pruned to 6 feet; trees that are 10 to 12 ft. high should be cut back to 8 ft. If there are any lateral branches below the point where the trees are cut back, such branches should be cut back to at least one-half. In future pruning, trees and shrubs should be allowed to assume natural form, removing only such limbs that overlap or limbs that make too long a growth should be shortened in to preserve uniformity of the head.

### DECIDUOUS TREES

**Apple, Flowering** This is one of the earliest and most beautiful of flowering deciduous trees. The flowers appearing in early spring in great profusion.

On account of their large size and shape they resemble very much that of small roses. The tree is a very vigorous grower. We propagate both the pink and the white double flowering varieties.

	Each	10
3 to 4 ft.....	\$1.00	\$7.50

**Ash, American White** Is an elegant tree for both street and avenue plantings and has proven highly satisfactory in California. It grows very tall and straight, having a broad top which gives ample shade. The foliage is very dense and of a bluish green in color.



It is highly valued for avenue and street planting, also for its timber, which is tall, smooth and straight grained, often attaining a height of 120 feet.

	Each	10
6 to 8 ft.....	\$1.00	\$7.50

**Catalpa Speciosa** This variety is highly prized in eastern states for its fine timber. It is a rapid grower, tall and straight, often being over 100 feet high.

In California it makes a beautiful shade tree, bearing large heart-shaped leaves, sometimes a foot long, it also bears fragrant white flowers which add much to its ornamental appearance.

	Each	10
6 to 8 ft.....	\$ .75	\$6.00

**Cherry, Flowering** The growth of the flowering cherry resembles that of the fruiting cherry tree but produces an abundance of double white flowers, which resembles very much the Camelia.

This is certainly a very attractive tree for the ornamental yard.

4 to 6 ft.....	Each \$1.00
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**Elm, English or French** Is one of the most highly recommended for planting in the San Joaquin valley section. The tree is an unusually strong grower, attaining a height of 100 feet. It is very erect and possesses a beautiful dark green foliage and its timber is of high value. One of the best for shade, and is highly suited for avenue planting.

**Elm, Huntingdon** Enjoys the distinction of being one of the most widely planted trees for avenue purposes as well as other places, where a handsome tree and good shade is desired.

It is a very strong, erect grower having a smooth bark and a foliage much different from other elms, being of a light green color. We do not hesitate to recommend this as one of the best of the European elms.

Prices on Elms

	Each	10	100
8 to 10 ft.....	\$1.25	\$10.00	\$75.00
6 to 8 ft.....	1.00	7.50	60.00

**Linden, American** This variety is commonly known as the Basswood and is a native of the eastern states where it grows to a height of about sixty feet. It is a strong rapid grower, having a broad round top, large leaves of a beautiful dark green color on the upper side and light green underneath. The flowers are a creamy white color and very fragrant. A fine variety for parks and home grounds.

	Each	10
6 to 8 ft.....	\$1.00	\$7.50

**Locust, Black** This variety is a native of America and is a very rapid grower, often attaining a height of 80 feet. While it is a fine ornamental and shade variety, it is more highly valued for its timber being planted in some localities very extensively for that purpose, also is very valuable for the making of posts, grape-stakes, etc. It thrives in open countries where nearly all other trees fail. The flowers are a beautiful white in color and very fragrant.

	Each	10	100
8 to 10 ft.....	\$1.00	\$7.50	\$60.00
6 to 8 ft.....	.75	6.00	50.00

**Maple, Silver or Soft** While this variety is a native of the Eastern States it is highly recommended for western planting. The tree is a strong rapid grower, often growing 120 feet high. The bark is light colored and smooth. Leaves are a beautiful green on the upper side and a silvery color underneath. Thrives particularly well in the interior valleys and makes a beautiful avenue or boulevard tree.

	Each	10	100
8 to 10 ft.....	\$1.25	\$10.00	\$80.00
6 to 8 ft.....	1.00	8.00	60.00

**Mulberry, Licks** As well as being a valuable tree for shade purposes it is also highly prized for its fruit and is recommended for planting in chicken yards and hog corrals. Hogs will thrive well by feeding on the berries as they drop.

(*Morus Americana*  
*Rubra*) This variety was originated by James Lick and is one of the best. The berries are large, a beautiful black color when ripe, and highly flavored.

8 to 10 ft.....	Each \$1.50
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**Mulberry, Persian** The Persian can easily be classed as the leader among mulberries. The tree while not a fast grower is strong and healthy and bears very young.

(*Morus Nigra*) On account of the large size and fine flavor of the berries it is unequalled by any other variety for the making of pies, tarts and other home dishes.

The berries are of a beautiful black color, sub-acid and very large in size, often measuring one to one and one-half inches in length. It is also found to be practically seedless. We highly recommend the planting of the Persian in all home orchards.

4 to 6 ft.....	Each \$1.00
3 to 4 ft.....	Each .75

**Peach, Flowering** This is one of the most attractive trees to be found in the early spring and should be planted in all parks and yards where flowers are appreciated.

The tree is a strong grower and can be trained most any shape desired. In April it will be found laden with blossoms before the leaves appear. The flowers are large, double and very fragrant. We propagate these flowering peaches in the double red, double pink and double white varieties.

	Each	10
4 to 6 ft.....	\$1.25	\$10.00
3 to 4 ft.....	1.00	7.50



Balm of Gilead



European Sycamore

**Balm, Gilead** (Populus Balsamifera) One of the strongest growers and most largely planted varieties of poplars. It grows very tall and handsome, has a broad crown and spreading habit. Large green heart shaped leaves and a medium smooth bark. To those desirous of securing a fast growing avenue or yard shade tree we highly recommend this variety.

**Carolina, Poplar** (Populus Carolinensis) This is another of the poplar family but it is decidedly different in shape than the Balm of Gilead. It grows very tall and of pyramidal shape, has plenty of deep green glossy foliage, is a rapid grower and much used for avenue planting.

Prices of Poplar Trees

	Each	10	100
10 to 12 ft.....	\$1.25	\$10.00	\$75.00
8 to 10 ft.....	1.00	7.50	60.00
6 to 8 ft.....	.75	6.00	50.00

**Smoke Tree** Is a native of Europe and was so named on account of its appearance which resembles very much a cloud of smoke. The tree grows to a height of 15 to 20 feet and in mid-summer is laden with large clusters of feathery flowers which are very valuable for decorating on account of their beautiful appearance and lasting qualities.

	Each	10
4 to 6 ft.....	\$1.50	\$12.50



**Sycamore, European**  
(*Platanus Orientalis*)

Is known also as the Oriental Plane tree, is a native of Europe and Asia, and is regarded as one of the best varieties for street, avenue and yard planting. It is of spreading habit with a well rounded head having plenty of foliage to protect the bark from sunburn. Leaves are very large and dark green in color.

The tree can easily be recognized on account of its bark, which is very thin and peels off in irregular flakes, leaving the trunk patched with light and dark spots.

We highly recommend planting it in all sections of California and particularly in the San Joaquin Valley.

	Each	10	100
10 to 12 ft.....	\$1.75	\$15.00	\$125.00
8 to 10 ft.....	1.50	12.50	100.00

**Tamarix** Is of rapid growth and is usually found growing as a tree but it can also be planted and grown as a shrub.

The foliage is very fine and quite similar to that of the Cypress. In its blooming season it is laden with fragrant flowers of a delicate pink color.

The Tamarix is found to be very valuable for wind break purposes and can be grown in most any section of California; in fact bears the reputation of growing where many other varieties are a total failure.

	Each	10
6 to 8 ft.....	\$1.00	\$7.50
4 to 6 ft.....	.75	6.00

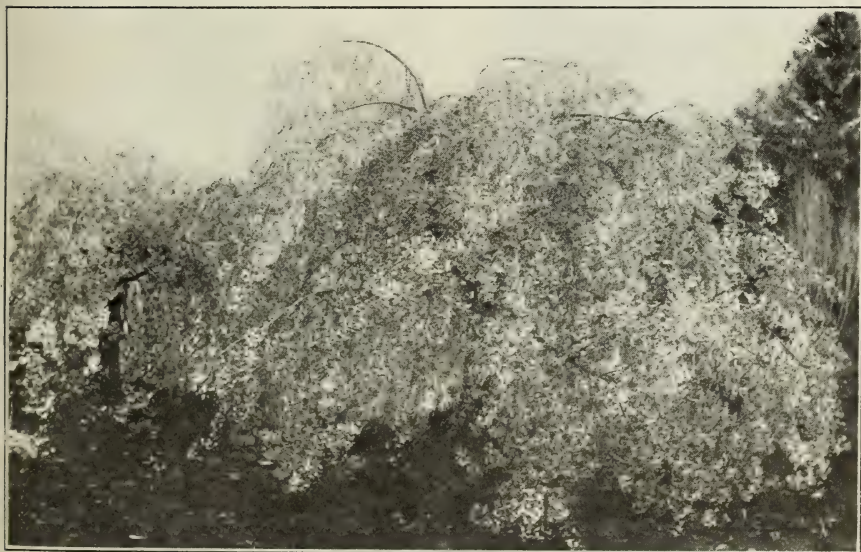
**Texas Umbrella**

The Texas Umbrella was discovered in Texas, near San Jacinto, and was found to be so much superior to other varieties of umbrella trees that it has been more largely planted than any other.

The branches are erect, the foliage of drooping habit, which gives the tree the appearance of a large umbrella. It enjoys the distinction of giving the best dense shade possible to obtain. The foliage is of a bright dark green and produces flowers of a lilac color which are very fragrant. It also produces berries or seeds which resemble very much that of a bead.

This variety is particularly adapted to the warmer climates in California and while it is not as highly recommended for street planting as some other shade trees we certainly do not hesitate to recommend it for all home yards, avenues and any place where dense shade is desired.

	Each	10
10 to 12 ft.....	\$2.50	\$20.00
8 to 10 ft.....	2.00	15.00
6 to 8 ft.....	1.50	12.50

**WEeping DECIDUOUS TREES****Weeping Cherry****Cherry, Weeping**

This is without a doubt one of the most handsome weeping ornamental trees propagated.

In addition to its weeping habits which make it very artistic for yard plantings, it is laden with flowers in the spring of the year which makes it exceedingly attractive.

Do not forget to order a weeping cherry tree when making your selection of ornamental trees.

6 to 8 ft.....Each \$3.00

**Mulberry, Teas Weeping** This is undoubtedly one of the finest of all weeping varieties of trees. Its long, slender branches, drooping to the ground, form a perfect umbrella shaped head. Weeping mulberry trees can be pruned in such a manner as to allow space enough underneath for a children's play house.

The tree is of strong habit, possessing a beautiful dark green leaf which is heart shaped. We do not hesitate to recommend the planting of one or more of these trees in every yard.

6 to 8 ft.....Each \$3.00

**Willow, Common Weeping** There is probably no variety of weeping trees so well known and largely grown in California as this variety. It is found quite extensively in the San Joaquin valley on ditch banks and other places, where plenty of water is to be had.

It is of decided value for its shade as well as for its ornamental purposes. When grouped with other trees for park planting presents a very fine contrast.

	Each	10
8 to 10 ft.....	\$1.25	\$10.00
6 to 8 ft.....	1.00	7.50

## DECIDUOUS SHRUBS

**Berberis** This is a very attractive low growing shrub which is used extensively in making ornamental plantings.

In the spring of the year it presents a very attractive appearance as it is then laden with orange yellow flowers and in the fall of the year the fruits or berries are very attractive, resembling Christmas berries.

	Each	10
Price .....	\$ .75	\$6.00

**Lilac** There are probably no other flowering shrubs which are so largely planted throughout the east and west as the Lilac. Their sweet fragrance, heavy blooming qualities and fine foliage is certainly a great attraction when planted in parks, yards or most any place, where one desires an ornamental shrub. We can supply this beautiful shrub in both purple and white.

We do not hesitate to recommend the planting of these varieties and believe they should be more extensively grown.

	Each	10
2 to 3 ft.....	\$ .60	\$5.00

**Ligustrum California** More widely known as the "California Privet," is very valuable for hedge planting. It is a very strong grower, having a beautiful bright green foliage of medium size, and can be kept trimmed to any shape or height desired.

On account of its rapid and fine growing features, and attractiveness we certainly do not hesitate to recommend it for hedge planting.

	Each	10	100
3 to 4 ft.....	\$ .75	\$6.00	\$50.00

**Pomegranate** This beautiful shrub thrives exceedingly well in California, especially in the interior sections. It has a beautiful bloom, often measuring two inches in diameter; it is a native of southern Asia and is grown extensively throughout the eastern countries, where it attains the height of from twelve to fifteen feet.

The foliage is very glossy and handsome and in addition to being exceedingly ornamental it also bears fruit which is very ornamental. This variety is certainly worthy of planting, and can be had in the following colors, white, scarlet and red.

	Each
3 to 4 ft.....	\$ .75

**Quince** Is a native of Japan and is one of the first shrubs to be found bearing flowers in great profusion in early spring.

(Cydonia) The shrub is a strong healthy grower, having a bright green foliage, which is highly ornamental. It is said that shoots covered with buds may be cut and kept in water from two to three weeks; the flowers gradually



unfolding until in full bloom. This variety we propagate in white, pink and red.

	Each	10
3 to 4 ft.....	\$ .75	\$6.00
2 to 3 ft.....	.60	5.00

**Snowball** This is a very attractive low growing shrub, and is a decided favorite throughout the eastern section of the United States, (*Viburnum*) and owing to its fine foliage and beautiful large round white flowers, it certainly should be more largely cultivated throughout all sections of California.

Snowballs are very attractive when planted as specimen plants and are highly favored by expert gardeners for grouping purposes. We believe every yard should contain one or more snowball bushes.

	Each	10
4 to 6 ft.....	\$1.00	\$7.50

**Spirea** A beautiful growing shrub and an abundant bloomer. The (*Bridal Wreath*) flowers are very compact and grow in clusters. It is one of the earliest blooming shrubs, and highly recommended for park and yard planting. Usually grows from three to six feet.

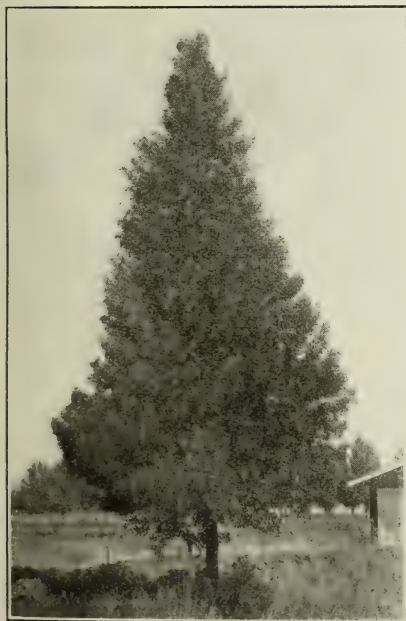
	Each	10
3 to 4 ft.....	\$ .75	\$6.00
2 to 3 ft.....	.60	5.00

## EVERGREEN TREES

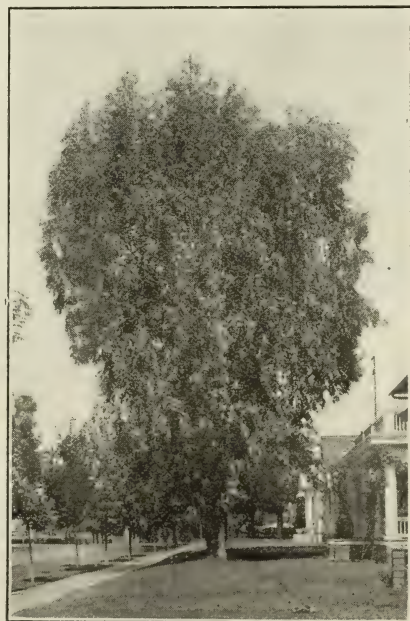
**Acacia Dealbata** This is one of the most popular varieties grown in California. It possesses a beautiful feathery foliage and varies in color from silver to green.

In early spring it is covered with beautiful clear yellow flowers, which are very fragrant. It is a strong and fast grower and one of the very best for avenue and street planting.

	Each	10
Potted, 3 to 4 ft.....	\$ .60	\$5.00



**Acacia Melanoxylon**



**Eucalyptus**

**Acacia Floribunda** Unlike the former variety the foliage of the Floribunda is long and narrow. It, however, produces an abundance of beautiful yellow flowers which are very fragrant. This tree while being a rapid grower is very erect, often attaining a height of thirty feet.

The fact that it is in bloom most of the time makes it one of the most highly valued for street and ornamental plantings.

	Each	10
Potted, 6 to 7 ft.....	\$1.25	\$10.00

**Acacia Latifolia**

This variety is of a drooping habit and is often used for hedge purposes. The leaves are long and vary from narrow to broad. It also bears an abundance of rich yellow flowers in rather long bunches. As well as being used for hedge purposes it makes a fine tree if properly trained. Often attains a height of thirty feet.

	Each	10
Potted, 4 to 5 ft.....	\$ .75	\$6.00

**Acacia Melanoxylon**

Widely known throughout California as the "Black Acacia" and more widely planted for street use than any other variety.

It is a beautiful pyramidal grower, having large oblong leaves of a dark green color and flowers of a light yellow color. It is very valuable for street planting and is especially adapted for planting in parks where it often attains the height of seventy-five feet.

	Each	10	100
Potted, 6 to 7 ft.....	\$1.25	\$10.00	\$75.00
Potted, 5 to 6 ft.....	1.00	7.50	60.00
Potted, 4 to 5 ft.....	.75	6.00	50.00

**Acacia Mollissima**

Is one of the best of the feathery foliage varieties. While not planted as extensively as the Melanoxylon, or Black Acacia, is a close second.

The tree is a strong grower and on account of its heavy foliage and its extensive crop of beautiful yellow flowers it is somewhat inclined to droop and grow rather crooked. For this reason we do not particularly recommend it as an avenue or street tree. We, however, believe that in every yard or space that can be found one of these beautiful flowering Mollissima Acacias should be planted.

	Each	10
Potted, 3 to 4 ft.....	\$ .60	\$5.00
Potted, 3 to 4 ft.....	Each	10
	\$ .60	\$5.00

**Arborvitae**

(*Thuja*)

A very beautiful evergreen tree and can be trimmed roundish, pyramidal, or as a hedge. It can be had in plain green, ever-golden, or golden tipped. It is one of the best conifers for California planting and largely planted in the front yards, parks and all places where low growing ornamental shrubs are desired.

	Each	10
Balled, 3 to 4 ft.....	\$3.50	\$30.00
Balled, 2 to 3 ft.....	2.50	20.00

**California Redwood**  
(*Sequoia Sempervirens*)

This variety makes a magnificent avenue tree, differing from the California Big Tree decidedly in appearance; the foliage being much broader and less compact. The tree is of strong erect growth, often attaining a height of three hundred feet. The branches stand out horizontally forming a very attractive looking tree. We do not hesitate to recommend this variety.

Balled, 2 to 3 ft.....	Each	\$2.00
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**Camphor Tree**

(*Camphora Officinalis*)

Is supposed to be a native of China and Japan. The tree is a very rapid grower, very symmetrical in habits, and highly ornamental. It has a bright green foliage, being pointed in shape and glossy, often turning to a red color during the winter.

One of the characteristics of this variety is the strong camphor odor. The tree often attains a height of forty feet, and is highly recommended for park and street planting.

	Each	10
Potted, 4 to 5 ft.....	\$1.25	\$10.00
Potted, 3 to 4 ft.....	1.00	7.50

**Cedrus Atlantica**

Supposed to be a native of North Africa. It is a strong grower of pyramidal shape.

The foliage is of a beautiful silvery green, which makes it a very handsome tree, and often attains the height of 120 feet.

Highly recommended for planting where an individual tree is desired.

	Each	\$3.00
Balled, 3 to 4 ft.....	Each	\$3.00
Balled, 2 to 3 ft.....	Each	2.50

**Cedrus Deodara**

Known as the Himalayan or Indian cedar, and grows to perfection throughout California. It has an abundance of drooping branches with a beautiful silvery green foliage. It is pyramidal in shape and often attains the height of 120 feet.

It is often described as being a tree of grace and beauty. Largely found in parks and in many front yards, and on account of its extreme beauty and hardiness, in California, we highly recommend its planting.

	Each	\$3.00
Balled, 3 to 4 ft.....	Each	\$3.00
Balled, 2 to 3 ft.....	Each	2.50



**Cypress Lawsoniana**

(Cupressus)

This variety is largely grown in Oregon and California. It is of a tall slender habit, growing to a height of 200 feet.

Its branches are very slender and drooping in habit. Highly recommended for park planting.

Balled, 3 to 4 ft. .... Each \$3.00

**Cypress Macrocarpa**

(Cupressus)

Commonly known throughout California as the "Monterey Cypress," and is more widely planted than any other variety.

Its value when planted for wind break purposes is unequalled. It is also largely used for hedge purposes.

The foliage is of a grayish green and imparts a fine odor. This is a native of California, and one of the most desirable evergreens planted in the state.

To those desiring a tree in new countries where a wind break is desired, we feel that the Monterey Cypress cannot be recommended too highly.

Transplanted in flats, 8 to 12 inches. .... \$3.50    100    1000    \$30.00

**Eucalyptus Globulus**

Commonly known throughout California as "Blue Gum." It is a beautiful upright, strong grower, possessing a bluish foliage. The wood of this variety is not as valuable as that of the red gum but it certainly is a very desirable tree for avenue and shade purposes. The wood is used principally for fuel. Often attains a height of 200 feet.

**Eucalyptus Robusta**

This variety is commonly known as the "Swamp Mahogany Gum." It is highly prized by bee keepers on account of its heavy crop of white flowers, which grow in large clusters blooming late in the fall. The foliage is of a deep glossy green and very ornamental.

It is claimed, by many, to be particularly valuable for planting in low ground where the moisture is near the surface.

**Eucalyptus Rostrata**

Commonly known as the "Red Gum." Is a very rapid grower and is particularly adapted for planting in the warm valleys of California. The wood is highly prized by cabinet makers, as it takes an exceptionally high polish and is very valuable for interior finish, as well as for the making of pianos, furniture, etc. When used for fence posts, piles, ties, etc., its keeping qualities are of the best. We recommend this variety to those who wish to plant eucalyptus extensively.

**Eucalyptus Rudis**

Another of the "Red Gum" varieties and bears the reputation of being able to withstand more cold than any other variety. It is a rapid grower and has a hard close-grained wood. It is highly valued for avenue planting, as well as for its fine timber.

**Eucalyptus Viminalis**

The tree of this variety is the largest grower of any of the eucalyptus family. Its wood is used principally for building materials. It is also highly prized for avenue planting, often attaining the height of 100 feet and having long drooping branches of very graceful appearance. The young bark and leaves are used for making what is known as Australian Manna.

**Prices for Eucalyptus Trees**

	Each	10	100	1000
Potted, 4 to 5 ft. ....	\$ .60	\$5.00	\$40.00	.....
Potted, 3 to 4 ft. ....	.50	4.00	35.00	.....
Transplanted in flats, 10 to 12 in. ....	.....	.....	3.50	30.00

**Grevillea Robusta**

(Silk Oak)

This is a native of Australia and is commonly known as the "Silk Oak." It is a very beautiful tree and where the frost is not too severe does well.

It grows to good size, often being 150 feet in height. Its leaves are large and fern like, bears flowers of a beautiful orange yellow, strongly perfumed.

We highly recommend the planting of this variety for street and avenue.

	Each	10
Potted, 4 to 5 ft. ....	\$ .75	\$6.00

**Magnolia****Grandiflora**

This is undoubtedly one of the most beautiful of all broad leaved evergreen trees. It is a native of the middle sections of the southern states.

The leaves are large, leathery and possess a beautiful glossy green appearance. I also produces flowers of an unusual size, sometimes being as much as ten inches broad and of a beautiful crystal white, possessing a wonderful aromatic fragrance.

This is one of the most picturesque trees for park and lawn planting.

Balled, 5 to 6 ft. ....	Each \$5.00
Balled, 4 to 5 ft. ....	Each 4.00
Balled, 3 to 4 ft. ....	Each 3.00

**Pine Halepensis**  
(Pinus)

This variety is a native of western Asia. It is a very rapid grower and of spreading habit. The leaves are of medium length and of a yellowish green color. The tree is very erect in habit, attaining a height of about sixty feet. It is particularly adapted to the climatic conditions of California and should by all means be more extensively planted, especially in parks and gardens.

Balled, 3 to 4 ft.....	Each \$2.50
Balled, 2 to 3 ft.....	Each 2.00

**Pine Ponderosa**

This is one of the great yellow pine timber trees of California.

It is a strong rapid grower, attaining a height of 150 to 250 feet.

The leaves or needles are from 5 to 11 inches in length and grow in whorls of three. This variety does well in most all sections of California.

Balled, 3 to 4 ft.....	Each \$2.50
Balled, 2 to 3 ft.....	Each 2.00

**EVERGREEN SHRUBS****Box**  
(Buxus)

Is a very ornamental shrub having a beautiful dark green glossy foliage and is highly valued for growing in tubs to be placed on porches, streets, or in hotel lobbies. It is also highly valued for hedge uses. When grown as single specimens they can be trimmed round, square, pyramidal or most any style desired, and can be grown in the interior warm regions, as well as in all coast sections.

Balled, 2 to 3 ft.....	Each \$2.00
Balled, 1½ to 2 ft.....	Each 1.75

**Evonymus Japonica**

This is one of the finest evergreen ornamentals for hedge purposes as well as for individual planting. It is a native of Japan and often grows from eight to ten feet in height. Is very erect in habit, possessing a beautiful glossy foliage and can be trimmed in most any shape desired. Highly recommended for interior valley planting.

Balled, 3 to 4 ft.....	Each \$2.50
Balled, 2 to 3 ft.....	Each 2.00

**Laurustinus**

A strong evergreen shrub which is highly valued as a hedge plant as well as for individual planting. Leaves are rather long and a dark green color. In winter it is a strong bloomer, bearing an abundance of white flowers.

Balled, 2 to 3 ft.....	Each 10	\$1.50	\$12.50
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**Oleander**

This is one of the best known evergreen ornamentals throughout the central and southern sections of California, where it does exceptionally well. The foliage is of a long shape, being light green in color. Its long blooming period during which it produces an abundance of beautiful flowers makes it one of the most highly recommended for avenue planting. We can supply Oleanders in white, red and pink, in both double and single flowering specimens. We strongly recommend the planting of the Oleander for avenue and ornamental purposes.

Balled, 3 to 4 ft.....	Each 10	\$1.25	\$10.00
Balled, 2 to 3 ft.....	1.00	7.50	

**CLIMBING AND TRAILING PLANTS****Ampelopsis Quinquifolia**

More widely known throughout California and eastern sections as the "Virginia Creeper." The vine is a strong vigorous grower, having a large leaf of a beautiful green, becoming a gorgeous golden coppery color in the autumn.

We highly recommend the planting of this variety for pergolas, porches, or most any place where a strong, healthy, quick climbing vine is desired.

Potted, 5-inch.....	Each 10	\$ .50	\$4.00
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**Ampelopsis Veitchii**

Commonly known throughout California and other sections, where planted, as the "Boston Ivy," and is no doubt more highly appreciated than any other variety of climbing vines.

In the coast sections as well as the interior hot sections of California, this variety can often be found, covering large brick schools and other buildings, clinging to the brick or stone work without any support.

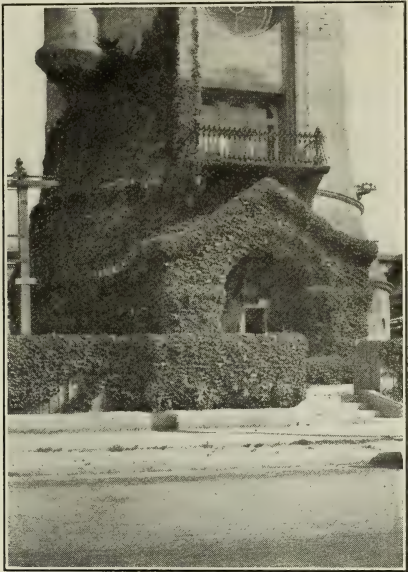


The vine is a very rapid grower, having a foliage of a beautiful glossy green color, changing to a golden coppery color in autumn and becoming heavily laden with deep blue colored berries. We certainly do not hesitate in highly recommending this variety as an ornamental climber.

	Each	10
Potted, 4-inch.....	\$ .50	\$ 4.00



Ampelopsis Veitchii



English Ivy

**Honeysuckle** One of the strongest, most widely known and highly recommended for California planting of the trailing plants. The foliage is of a dark green color, very glossy, and remains so throughout the entire season. The flowers are small but very fragrant, and abundant, and present a very attractive appearance.

Honeysuckles are largely used for the covering of pergolas, porches and other places where quick growing, strong trailing plants are desired.

	Each	10
Potted, 4-inch.....	\$ .50	\$ 4.00

**Ivy English** This variety is extensively grown throughout Europe, Asia and Africa, and is a strong, healthy vine, covered with a beautiful dark green leathery foliage, of glossy appearance, and is considered extremely valuable for the covering of stumps, fences or fallen logs, and it is sometimes found in California growing upon palm trees, as well as many other trees, covering them quite extensively to a height of fifty feet.

	Each	10
Potted, 4-inch.....	\$ .50	\$ 4.00

**Wisteria** Is one of the most desirable and highly appreciated of climbing vines. It is a very rapid, strong grower, and is particularly valued for the covering of pergolas, porches, etc. In the spring of the year it is seen heavily laden with beautiful pea-shaped flowers hanging in long bunches which are particularly noticeable on account of the absence of foliage at the blooming period.

In beauty as well as fragrance it easily surpasses any other of the climbing vines. We can furnish this beautiful climber in purple, white and double purple varieties.

Price .....	Each	\$ 1.00
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PALMS

The palm, the most highly ornamental of evergreen plant life, is particularly adapted to California owing to the semi-tropical climate. All varieties thrive well and for their tropical appearance, make our gardens attractive to Eastern visitors. After once established, their culture is very easy and no garden is complete without a few of the different varieties.



Phoenix Canariensis

### Chamaerops Excelsa (Japanese Fan Palm)

One of the hardiest of the Fan Palms. Foliage dark green; the segments of the fan-shaped leaves deeply cut, the edges covered with tooth-like spines. Grows from 15 to 20 feet high; very desirable for sidewalk decoration.

Balled, 3 to 4 ft. ....

Each \$3.50

Balled, 2 to 3 ft. ....

Each 2.00

### Phoenix Canariensis (The Canary Island Date)

The handsomest and hardiest species of the date palm family. Being a rapid grower, it soon develops into beautiful specimens, with pinnate, dark green leaves, from 6 to 21 feet long, the divisions linear, lance-shaped, very much pointed. It is fully as hardy as the native Fan Palm and differing so widely from that variety in its habit of growth, color, and style of foliage, a finer contrast cannot readily be imagined when the two are planted, either opposite or alternately in rows.

Balled, 4 to 5 ft. ....

Each \$4.00

Balled, 3 to 4 ft. ....

Each 3.00

Balled, 2 to 3 ft. ....

Each 2.00

### Washingtonia Robusta

A distinct type; leaves drooping, much greener than preceding and with fewer white filaments. Petioles more heavily spined. Much more rapid grower than *W. filifera*; trunk much more slender than that variety.

Balled, 3 to 4 ft. ....

Each \$3.00

Balled, 2 to 3 ft. ....

Each 2.00

## ROSES

We grow only the best varieties of roses suitable for planting in California, selecting the varieties on account of their habit of growth, beauty of color and texture of the flowers. Our roses are grown in rich loamy soil, which is conducive to giving them fine tops, also a splendid fibrous root system. They are budded on Mannetti stock and are sturdier and longer lived than those grown on their own roots. When the plants are received by our customers the tops should be pruned back to at least eight inches, and not more than two branches should be allowed to remain. The best time for pruning is from the middle of December to the first of March. After the roses are well established and fall setting of bloom desired, the new growths can be cut back to one-half after they are through blooming—about the first of July. It is desirable, when such pruning is done to give the rose-bed a good fertilization by using well-rotted manure, and, if obtainable, blood and bone meal may be worked around the roots of the plants. The above pruning refers entirely to bush roses. With climbing roses the framework branches should



be trained up against the wall of lattice-work, not leaving more than two branches after the first winter's pruning, and these should be cut back to at least one-half to promote vigor and sturdiness of growth. In future years the laterals can be shortened in and thinned out sufficiently to prevent overcrowding. All dead wood should be removed at each season's pruning. Where planted in rose gardens they should be set  $2\frac{1}{2}$  to 3 feet apart each way. Hedge roses, such as the Agrippina and Gruss an Teplitz, should be planted 18 to 24 inches apart. In later years they will stool from the ground and make a compact hedge. The type to which the varieties listed herein belong is noted following the names. As an illustration the Hybrid Tea rose is a cross of the Tea with an other type of rose.

	Each	10
Prices of Roses.....	\$ .75	\$ 6.00

### **Agrippina** (Bengal)

For hedge purposes is unequalled by any other Rose. While it is classed as a single bloomer it is of double appearance, deep brilliant red in color, with a very sweet scent.

The bush is a strong, vigorous grower, and blooms continuously for several months; thus it will be seen the Agrippina is a very attractive hedge variety.



### **American Beauty**

#### **American Beauty** (Hybrid Perpetual)

Is probably more widely known than any other variety grown in this country. It was found growing in France by an American tourist who brought it to this country and named it American Beauty.

It is used extensively by the florists as a cut-flower. The buds are very hardy for cutting and slow in opening. The flowers are of large size, shading from pink to deep rosy crimson, of beautiful globular shape and highly scented. The plant is a strong grower and produces blossoms in abundance.

Too much cannot be said of this rose and every home garden should have one or more bushes of this magnificent variety.

#### **Beauty of Glazenwood** (Miscellaneous)

To all those desiring a climbing rose of rare beauty we recommend that they plant the Beauty of Glazenwood. This is without a doubt

one of the hardiest and most attractive roses grown in this country.

The unusual combination of bronzed yellow or copper and fawn color, coupled with its strong growing habits and deep green foliage place it among the best of climbers.

It is one of the very first varieties to bloom in early spring and we feel justified in giving it the highest commendation.

#### **Belle Siebrecht** (Hybrid Tea)

To those familiar with this rose it needs no introduction. Wherever grown it attracts wide attention and this is not to be wondered at, taking into consideration that when planted under the most adverse conditions it has proved to be of the hardiest nature and a strong grower.

The plant with its long graceful canes and bright clean foliage, covered with an abundance of large solid pink flowers creates a most beautiful effect. The

flowers are attractive at all stages from the bud to the full bloom, and we assure those planting this rose that they will not be disappointed.

## Betty

(Hybrid Tea)

Is a native of Ireland and to those wishing to plant a rose of exceptional beauty we can recommend nothing better. The rose must be seen while in full bloom to be appreciated. For decorative purposes in the garden and around the home grounds it is unsurpassed, as it blossoms out in early June and continues in full bloom until the frosts of winter put an end to its activities.

The flowers are deliciously fragrant, of very large size, full and beautiful. The exquisite color being copper, overspread with a beautiful golden yellow, supported by a strong vigorous growing bush, leaves nothing wanting in the way of beauty.

## Black Prince

(Hybrid Perpetual)

Possibly no other plant in existence offers to the planter an opportunity of selecting his favorite color than does the rose. For sometime people have desired a rose of black color and to those we now offer the Black Prince. While it is not entirely black it comes nearer producing this effect than any other rose known. The plant is a strong grower and produces an abundance of globular shaped flowers, deep dark crimson and richly shaded.

## Bridesmaid

(Tea)

This is one of the newer varieties and a sport from the well known Catherine Mermet which it greatly resembles with the exception of color and is a more constant bloomer. It is fast coming into popularity. The large double flowers, clear rose-pink in color, with the large beautiful buds supported by long strong canes make it especially adapted for cut-flowers.

To those desiring a rose for cut-flower trade as well as the beautifying of home grounds we can recommend nothing better.

## Capt. Christy

(Hybrid Perpetual)

The plant while of more dwarfish habit than many other varieties is very strong and sturdy even when planted under adverse conditions. It has foliage of rare beauty, dense, and deep green in color. The delicate buds together with the very large, full, flowers of pale peach color, deepening towards the center to rosy crimson, make it of striking appearance.

This rose blooms almost the entire season and for this reason is particularly adapted for decorative planting around the home.

## Cherokee Double

(Miscellaneous)

Is oftentimes known as Fortunes White, and was brought from China in 1850 by Mr. Fortune. It is one of the most beautiful of the climbing double roses for planting to cover pergolas, porches, summer houses, etc. Flowers are pure white in color, very double, and borne profusely. The bush is a rampant grower with dark green foliage.

## Cherokee Single

(Miscellaneous)

This variety is particularly adapted for covering pergolas. It is, without a doubt, the most beautiful of climbing single roses.

The plant is very vigorous having slender prickly branches of bright green covered with showy single flowers measuring from 2½ to 3 inches across. The flower is given an additional touch of attractiveness by the stamens which are of bright yellow color. It is set off with shiny, dark green foliage, and taken as a whole presents a most striking appearance.

## Climbing Belle Siebrecht

(Hybrid Tea)

Is one of the very best of climbing roses. It resembles the bush variety of the same name, however, the flowers are somewhat fuller and larger. Covered as it is with bright clean foliage and an abundance of bright pink flowers it commands particular attention among rose growers. The bush is a strong, healthy grower.

A climbing Belle Siebrecht planted alone or alternated with some good variety of white climber makes a very attractive planting for covering porches, pergolas, etc.

## Climbing Bridesmaid

(Tea)

Is identical with its parent Bridesmaid but is a climber while Bridesmaid is a bush. The flowers are large, double, clear rose-pink in color supported by long strong canes. It is the best known pink cut-flower rose of America. It is particularly adapted to this class of trade due to the long canes. Too much cannot be said of this magnificent rose.

## Climbing Capt Christy

(Hybrid Perpetual)

One of the best climbing roses grown. It is a strong grower and is covered with foliage of great beauty, dense, and deep green in color.

It has large delicate and fragrant buds; very large, full flowers of a pale peach color, deepening to rosy crimson towards the center. The plant produces an abundance of flowers almost the entire season.



### Climbing Caroline Testout (Hybrid Tea)

blossom freely. A rose of such rare beauty is worthy of the best care possible and those giving it such attention will be amply rewarded. Its combination of color makes it one of the most highly esteemed roses grown. The flower is large, of a bright clear, delicate pink color; highly perfumed.

The plant is a vigorous grower, oftentimes forcing canes to a height of 12 feet in a season and caliper of one inch. Foliage is large and dense.



Climbing Capt. Christy

### Climbing Kaiserin Augusta Victoria (Hybrid Tea)

rose planters of this country and little wonder considering the exquisite beauty of its pointed buds; creamy white delightfully fragrant blossoms, which appear everywhere upon a plant of rich foliage.

The flowers are double, large and full, supported by long stiff canes. The plant is a very strong thrifty grower, attaining a height of 15 feet in a season. All planters should have one or more of these beautiful roses.

### Climbing Mlle. Cecile Brunner (Polyantha)

exception of it being a climber. This is one of the most beautiful of the smaller climbing roses. Flowers are daintily clustered and of a high rich rosy pink color shaded to the center with a bright salmon tint. The small buds are especially beautiful. The flowers have a pleasing fragrance.

### Climbing Papa Gontier (Tea)

Another of the choice climbing red roses. Its beautiful flowers and buds together with its hardiness places it foremost among roses.

The buds are very large, broad, and shapely. The blossoms are cherry-red, merging to a deep glowing crimson and highly fragrant.

This variety even when neglected has an abundance of many fine flowers but when properly cared for will produce quantities of exquisitely formed, highly scented blossoms.

### Climbing Perle des Jardins (Tea)

double yellow roses. Its exceptional deep golden yellow color and high fragrance commands great attention and is used quite extensively for cutting.

The flowers have an individuality not found in other yellow roses being of very heavy substance, large, double and globular in form. The plant is a strong vigorous grower with very attractive deep green foliage.

This rose is of unusual merit and attractiveness. It has a very large following among the

Originated in California in the year 1901 and is identical with the bush variety, of the same name, with the

To the majority of rose growers this variety needs no introduction. It is without a doubt one of the best of climbing

### **Climbing Wooton** (Hybrid Tea)

This is a sport from the well known rose "Souvenir de Wooton" and for those wishing to plant a red rose of rare beauty, to cover a trellis, pergola or veranda, we can suggest nothing better than the Climbing Wooton.

The plant is a rapid grower, easily attaining a height of 10 feet or more in a single season, with an abundance of handsome deep green foliage.

The extremely well shaped flowers are bright cherry-red in color merging to violet crimson and of most delightful fragrance. Blooms continuously throughout the rose blooming season.

### **Crimson Rambler** (Polyantha)

Introduced by Turner in 1893, and since that time has gained great popularity. It is probably better known than any other variety of Rambler rose grown in this country.

Owing to its profuse blooming qualities and the rapidity with which it sends forth its canes it is particularly adapted for running along fences, trellises, pergolas, etc.

While the individual flowers are small, one to one and one-half inches in diameter, they are of double nature, beautifully formed, and cluster in abundance. They bloom but once, but will keep in good condition on the plant for a period of two weeks. The blossoms are of a glowing crimson color and very attractive.

### **Dorothy Perkins** (Wichuraiana)

feet in a season.

The foliage is bright green in color and glossy from early spring until the winter months set in. For training over pergolas, trellises, porches, fences, etc., it has no superior.

The plant is a solid mass of clear cherry-pink blossoms, sweet in fragrance and grow in clusters. The blossoms are of medium size full and double with crinkled petals giving a fluffy appearance.

### **Duchess de Brabant** (Hybrid Tea)

in abundance almost the year round.

The flowers are double, large in size, of a soft rosy pink color shading to bright rose towards the center. The buds are of elegant shape. While not so widely known as many other varieties of pink roses we can readily recommend it to all rose growers.

### **Duchess of Albany or Red La France** (Hybrid Tea)

The blossoms grow to large size, very symmetrical in shape, the petals of which attract wide attention by their beautiful luster.

The plant is a vigorous grower throwing out very long canes covered with deep green foliage. Taken in all it presents a most striking appearance.

### **Etoile de France** (Hybrid Tea)

Supported by long stiff canes it makes an ideal plant for cutting.

The foliage differs somewhat from that of most other varieties in that it is of a bronze color. The combined colors of the flower and foliage make it a most attractive variety for planting in the garden or around the house.

### **Francisca Kruger** (Tea)

excepting in color, and with its unique deep coppery yellow color, shaded with peach pink, it stands distinct from all others. Its buds are of excellent form, supported by a strong growing vigorous plant.

This is certainly a variety of great merit and should not be overlooked when planting a rose garden.

### **Franz Deegen**

The Franz Deegen is a beautiful pale yellow in color, having a deep golden center with a creamy tint on the outer edge of the petals. It is a medium size rose and very fragrant.

### **Frau Karl Druschki or Snow Queen** (Hybrid Tea)

Without a doubt it is the best of all white varieties not being marred with a tinge of cream as are most all other white varieties.

This is a sport from the well known rose "Souvenir de Wooton" and for those wishing to plant a red rose of rare beauty, to cover a trellis, pergola or veranda, we can suggest nothing better than the Climbing Wooton.

The plant is a rapid grower, easily attaining a height of 10 feet or more in a single season, with an abundance of handsome deep green foliage.

The extremely well shaped flowers are bright cherry-red in color merging to violet crimson and of most delightful fragrance. Blooms continuously throughout the rose blooming season.

Introduced by Turner in 1893, and since that time has gained great popularity. It is probably better known than any other variety of Rambler rose grown in this country.

Owing to its profuse blooming qualities and the rapidity with which it sends forth its canes it is particularly adapted for running along fences, trellises, pergolas, etc.

While the individual flowers are small, one to one and one-half inches in diameter, they are of double nature, beautifully formed, and cluster in abundance. They bloom but once, but will keep in good condition on the plant for a period of two weeks. The blossoms are of a glowing crimson color and very attractive.

This variety was introduced by the Jackson Perkins Company, of New York, in 1902. It is an exceptionally vigorous climber, frequently attaining a height of 20

feet in a season.

The foliage is bright green in color and glossy from early spring until the winter months set in. For training over pergolas, trellises, porches, fences, etc., it has no superior.

The plant is a solid mass of clear cherry-pink blossoms, sweet in fragrance and grow in clusters. The blossoms are of medium size full and double with crinkled petals giving a fluffy appearance.

Widely known as "Duchess." This rose is especially adapted for bedding and decorative planting around the home for the reason that it blossoms

in abundance almost the year round.

The flowers are double, large in size, of a soft rosy pink color shading to bright rose towards the center. The buds are of elegant shape. While not so widely known as many other varieties of pink roses we can readily recommend it to all rose growers.

This is a sport from the well known La France and differs in color only that it is of a

deeper pink tint. The blossoms grow to large size, very symmetrical in shape, the petals of which attract wide attention by their beautiful luster.

The plant is a vigorous grower throwing out very long canes covered with deep green foliage. Taken in all it presents a most striking appearance.

Introduced by J. Pernet Ducher, in the year 1905 and a rose that is fast coming into popularity. It is delightfully fragrant, clear red in color, shading to crimson.

Supported by long stiff canes it makes an ideal plant for cutting.

The foliage differs somewhat from that of most other varieties in that it is of a bronze color. The combined colors of the flower and foliage make it a most attractive variety for planting in the garden or around the house.

To those wishing to plant a rose of unusual beauty, blooming in the autumn months, we offer the Francisca Kruger. It strongly resembles the Catherine Mermet,

excepting in color, and with its unique deep coppery yellow color, shaded with peach pink, it stands distinct from all others. Its buds are of excellent form, supported by a strong growing vigorous plant.

This is certainly a variety of great merit and should not be overlooked when planting a rose garden.

This is a seedling of the Kaiserin Augusta Victoria which it resembles considerably with the exception of color.

The Franz Deegen is a beautiful pale yellow in color, having a deep golden center with a creamy tint on the outer edge of the petals. It is a medium size rose and very fragrant.

This variety was introduced from Europe and has become the favorite among white roses.

Without a doubt it is the best of all white varieties not being marred with a tinge of cream as are most all other white varieties.



The buds are long, bursting forth into unusual large flowers that know no equal in beauty. They are of delightful fragrance supported by strong vigorous canes and are especially adapted for cutting. The bush is very hardy having an abundance of thick leathery foliage.

We cannot recommend this variety too highly as we know of no other white bush rose of as excellent quality.

## Gen. Jacqueminot (Hybrid Perpetual)

Is extensively grown in France being one of the favorites. Since introduced into this country it has gained many admirers. This is not to be won-

dered at as its rich bright crimson color makes it very attractive.

The flowers are large in size, full, of sweetest fragrance, supported by long slender stems seemingly waving defiance at its fellow neighbors. The bush is of hardiest nature with foliage of splendid beauty. This rose, with its long willowy stems, and handsome foliage make it one of the best for bouquets, etc.



Kaiserin Augusta Victoria

## General McArthur (Hybrid Tea)

Since introduced by Hill, in 1905, has steadily increased in popularity until it is now one of the most popular of the crimson roses.

The buds at their first opening, are of a flaring crimson, retaining this color throughout its blooming season. The flowers are of large size, full and highly fragrant. The bush is a hardy grower with an abundance of beautiful foliage.

The color contrast offered by this variety is indeed a wonderful sight and we recommend it as unexcelled for planting in the garden or around the home.

## Grus an Teplitz (Bourbon)

While it is generally classed under bush varieties it is very often used as a climber due to its very strong vigorous habit of growth. It is held in high esteem, by

florists, on account of the freedom with which it blooms from early June until the frosts put in an appearance.

The buds are of excellent form and upon first opening are of a dark crimson color but later change to a most beautiful fiery red when flowers are in full bloom. The flowers are of good size and highly fragrant.

We feel that those wishing to plant a red rose for decorative purposes, around the home, or for making bouquets, etc., will make no mistake in selecting this variety.

## Helen Gould (Hybrid Perpetual)

Is held in high esteem by all rose growers and considered one of the best ever-blooming roses now growing.

The buds are long and pointed, very handsome in all stages of their growth. When in full bloom the flowers attract wide attention being of elegant form, double, full and deep with a color not to be surpassed by any other variety of its class. Unlike most other roses it is of light delicate carmine in the center gradually deepening toward the edges.

This plant sends out strong shoots of great vigor and thrives in most all parts of this country.

## Hugh Dickson (Hybrid Perpetual)

Hugh Dickson is a very consistent bloomer and is well thought of by rose growers. As the season advances the flowers appear in greater abundance and for this reason is extensively used for home decorating.

The plant is of the hardiest nature sending out strong canes, covered with large handsome foliage, and very large flowers, brilliant crimson in color shaded with scarlet, highly scented. The buds open out full showing each petal to advantage.

### **Improve d Rainbow** (Tea)

Came in possession of its name because of the unusual combination of colors to be found in the flowers.

It is of larger size and different marking than the ordinary Rainbow. The flowers are of a flesh color flecked with rose and carmine while that of the Rainbow is penciled. This rose is entirely different from any other variety and attracts attention wherever grown.

The plant is a vigorous grower and those wishing something distinct in roses should not fail to plant the Improved Rainbow.

### **Jubilee**

(Hybrid Tea)

Originated by Henderson in 1898 and is one of the most beautiful roses grown having a color of unusual beauty varying from scarlet red to a dark crimson.

The Massachusetts Horticultural Society has the following to say with regard to this rose: "That in competition with hundreds of others it was the most beautiful rose shown in fifty years."

The bush is a strong grower, very healthy, and produces an abundance of large, full, delicate blossoms of unusual fragrance.

### **Kaiserin Augusta Victoria**

(Hybrid Tea)

This is one of the grandest of the white roses made so by the beautiful buds, of decidedly pointed shape, and large double blossoms, delightfully fragrant and creamy white in color.

The blossoms and buds supported on long stiff canes, offset with deep rich green foliage, are unexcelled for their keeping qualities and are extensively used for cut flower purposes. The plant is a strong sturdy grower.

### **Killarney**

(Hybrid Tea)

Originated in 1898 by A. Dickson and is one of the most popular roses grown.

The bush is unusually hardy, a rapid grower, with bronze colored foliage. The buds are deep, long and pointed, with heavy petals. Blossoms are large, of flesh color and pale pink, delicately blended and highly fragrant.

The buds and flowers grow on long stems which make them particularly adapted for cut-flower purposes.

### **La Detroit**

(Hybrid Tea)

Originated by Breitmeyer, in 1904, and taken from all standard points, is one of the grandest roses grown.

The bush is a strong, sturdy, upright grower almost continuously in bloom. Blossoms are of a delicate shell pink color, overspread with rose, beautifully formed and large in size.

Both in bud and open flower it is of striking appearance.

### **Lady Battersea**

(Hybrid Tea)

Commonly known as Red Kaiserin Augusta Victoria. It is a remarkably free bloomer producing an abundance of flowers on long strong stems.

The buds are of excellent form, long and deep, opening out in full, showing blossoms of a rich red color, to advantage.

The bush is a sturdy, upright grower with excellent clean foliage. Particularly adapted for cut flower uses.

### **La France**

(Hybrid Tea)

Produced in 1867, by Guillot, raised from seed of a Tea rose.

This rose has gained widespread popularity and this is not to be wondered at for when seen in full bloom it is a sight not to be soon forgotten.

The plant is a hardy grower sending forth strong, woody canes supporting an abundance of large, globular blossoms of a pleasing silvery rose color highly scented and the petals are very gracefully reflexed. The foliage is especially adapted for cut-flower purposes.

### **Lamarque**

(Noisette)

One of the most popular of the climbing varieties. The blossoms are of pure white color, tinted with a sulphury yellow center, well formed and highly scented.

The plant is a strong rapid grower with heavy dense foliage and being a profuse bloomer is particularly valuable for planting around pergolas, trellises, porches, etc.

### **Liberty**

(Tea)

One of the finest crimson scarlet colored roses grown. The bush is a strong vigorous grower and bears an abundance of well-formed flowers.

This variety is a free and continuous bloomer and is a valuable addition to the rose garden.

### **Mme. Caroline Testout**

(Hybrid Tea)

Introduced by Pernet-Ducher in 1890 and to those on the Pacific Coast it needs no introduction as it is very extensively grown here.

It is of hardiest nature and under very trying conditions produces an



abundance of very large beautiful blossoms, satiny pink in color and highly perfumed. The flowers are large and beautifully formed.

This rose is highly regarded in the city of Portland, Oregon, and they have adopted it for their official city flower.

### **Mme. Leon Pain** (Hybrid Tea)

Introduced, by Guillot in 1904, from Europe. The plant is a strong robust grower, with foliage of dark green, bearing in abundance blossoms of exquisite beauty which are silvery pink shaded with a touch of salmon color and are very large in size.

The buds of pointed shape and beautiful blossoms make it one of the most attractive roses when cut for bouquet and decorative purposes.



Jubilee



Mme. Caroline Testout

### **Mlle. Cecile Brunner** (Polyantha)

Introduced by Ducher, in 1880, and since that time has been extensively planted in this country.

It is one of the most beautiful of the smaller roses. The flowers are daintily clustered, of high rich rosy pink color tinged at the center with a touch of bright salmon. The buds are small, very beautiful, and are borne in profusion on the plant.

This flower has a very pleasant fragrance and is a constant bloomer, opens out full, and is a variety we highly recommend planting for decorative purposes. The plant is a robust hardy grower adapting itself to all sections.

### **Maman Cochet** (Tea)

This variety is of French origin, is very hardy and vigorous, and one that we feel should be planted in all gardens or home grounds.

The buds are long, pointed, supported by long stiff stems, and when in full bloom present a very beautiful double flower pinkish-red in color changing to silvery rose. Is very sweetly scented. Used quite extensively for cut-flower purposes. This variety adapts itself to almost all conditions and is one we highly recommend.

### **Marechal Niel** (Noisette)

A French production and introduced in 1864. The plant is a strong, healthy grower, supporting an abundance of the most beautiful bright golden yellow blossoms, globular in shape, highly fragrant.

The buds are very full and especially attractive. Unlike most varieties the buds and flowers of this rose seem to increase in color and odor when cut from the plant. The foliage is dense and dark green in color. This without a doubt is a rose of rare beauty, one that planters should have in their collection.

### **Marie Van Houtte** (Tea)

This is one of the finest of the yellow roses. The bush is a strong grower and an abundant bloomer.

The flowers are a beautiful canary yellow, bordered with bright rose. They are of large size and fine form. One we highly recommend to rose lovers.

**My Maryland  
(Tea)**

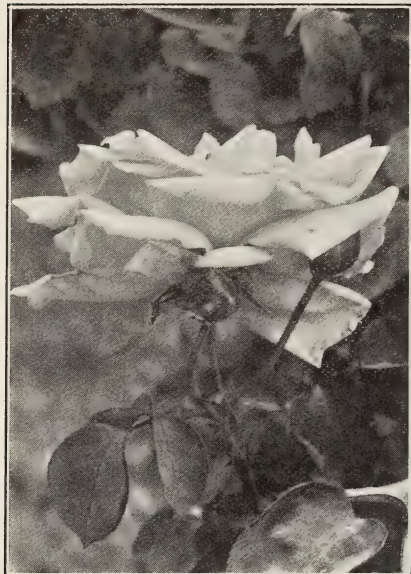
The bush of this variety is a strong grower, and bears an abundance of highly fragrant flowers of a beautiful bright pink color.

To anyone desiring a beautiful pink rose, we can recommend nothing better than this variety.

**Ophelia**

One of the favorites of the rose garden. It is a beautiful salmon flesh color with a light salmon colored center.

The bush is a strong grower and a free bloomer, producing fine buds and roses on long stems which stand erect and are very desirable when used for decorating purposes.

**Reve d'Or****Ulrich Brunner****Niles Cochet**

This is a sport from the well known Maman Cochet, but is pronounced by rose critics to be much superior to that variety.

It is a beautiful brilliant red in color varying to a cherry red on the outer petals.

The flowers are a trifle smaller than the Maman Cochet but the stems are longer and much better for bouquets and for decorating purposes.

The bush is a strong grower and a free bloomer.

**Papa Gontier****(Tea)**

This is one of the most magnificent of roses, being finely formed, of a beautiful carmine color, changing to lilac.

The flowers are very fragrant. The bush is a strong grower and does well in all sections where roses can be grown.

**Paul Neyron****(Hybrid Perpetual)**

This variety bears the distinction of being the largest rose grown and is one that every rose grower should have.

The plant is a strong vigorous grower, covered with deep green foliage, blossoming two or three times a season. Flowers are massive, opening out in full, showing to advantage their delicate pink color shaded to red. Its fragrance is decidedly strong having somewhat the scent of an apple blossom. Extremely hardy.

**Perle des Jardins****(Tea)**

One of the most popular of the tea rose varieties. The flowers are very large, double and globular in form, beautiful golden yellow, varying to canary, in color

with a delightful fragrance

The plant is a strong, vigorous grower having an abundance of attractive, deep green foliage. It is used quite extensively by green house propagators for forcing as it makes an ideal cut-flower plant. This beautiful rose should not be overlooked when making your selection for planting.

**Reve d'Or****(Noisette)**

First came into prominence in 1869 and since that time has steadily gained in popularity. It is now to be found in most all sections of the country. The bush is a strong climber with

an abundance of heavy foliage. Its flowers are of an unusual color being buff-yellow and fawn. For covering trellises, verandas, porches, etc., it is unsurpassed.



**Reine Marie Henriette****(Hybrid Tea)**

Introduced by Levet in 1878 and is known as one of our best climbers. The plant supplies an abundance of very large, full, double flowers finely formed and of a beautiful cherry red color, highly scented. The buds are of pleasing proportions. Both flowers and buds are of clustering habit. This variety is extensively used for cut-flower purposes.

**Richmond****(Hybrid Tea)**

This variety was originated at Richmond, Indiana, from whence it got its name. It greatly resembles the American Beauty, but does not grow to as large a size.

The plant is a sturdy grower, with deep green foliage of large size, supporting on thick heavy stems large flowers of vivid red color. The flowers open out to full size showing very large delicate petals. This is one of the very few distinctive American roses grown today.

**Safrano****(Tea)**

To those desiring a rose of a deep fawn color, the Safrano is unexcelled. The flowers when first open are a dark fawn in color, changing to a light fawn.

The bush is a strong grower and does well in all sections.

**Ophelia****Sunset****(Tea)**

Introduced by Henderson in 1884 and is said to be a sport from the well known Perle des Jardins which it resembles strongly in habit and shape. The bush is a strong grower, with foliage of a coppery color and very beautiful. The flowers are of a beautiful golden amber color with a faint ruddy tint. Highly recommended for its extreme beauty.

**The Bride****(Tea)**

A strong growing variety that needs no introduction to the rose grower. This highly fragrant, double flower of pure white sometimes tinged with pink, is without a doubt one of the most popular roses of its class. The foliage is large, deep green, supported by a bush of vigorous growth. Blossoms freely and is an ideal plant for the rose garden.

**Ulrich Brunner****(Hybrid Perpetual)**

Introduced by Levet in 1881. The cherry-red blossoms set well above the foliage, on long slender stems make them decidedly attractive. The flowers are large, full and globular in shape, blooming very profusely and constantly during its season. The plant is a strong vigorous and compact grower. The color of this rose is not to be found in any other variety and to those wishing something out of the ordinary we can recommend nothing better.

**White Maman Cochet****(Tea)**

This is a very valuable variety for either hot house or outdoor propagation. When grown in the hot house it grows to an enormous size, very round and full in shape and of an elegant clear white color. When grown in the rose garden or outside it does almost as well but changes somewhat in color being of a pinkish white.

On account of the high quality flowers and the fine growing features of this rose we certainly feel that it should be planted by all lovers of roses.



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# PROTECT YOUR TREES

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